

Watch Movement Specification and Drawing

Sweep Second 3 Hands

VH31B



Movement Size: **10 1/2"**
 Diameter: **Φ23.70mm**
 Height: **3.45mm**

Items	Ver.	Items	Ver.
Specification	1		
Appearance	1		
Casing	1		
Hand Fitting	1		
Hand Setting Stem	1		
Dial	1		
Casing Ring	1		
Assembly Plan	1		
Hands	1		

CAL.VH31B 10½ Ligne Quartz Movement

Three Hands (1/4 Center Second Hand)

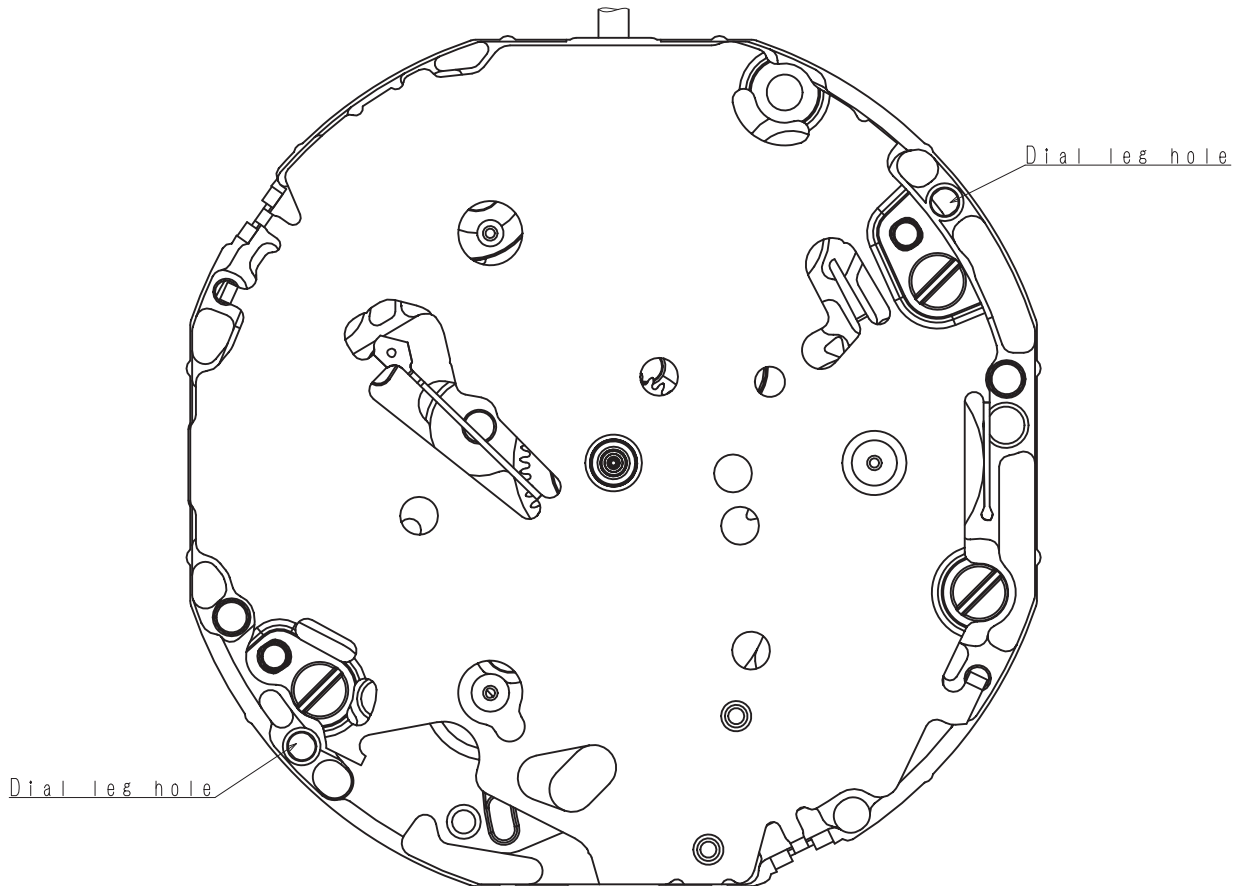
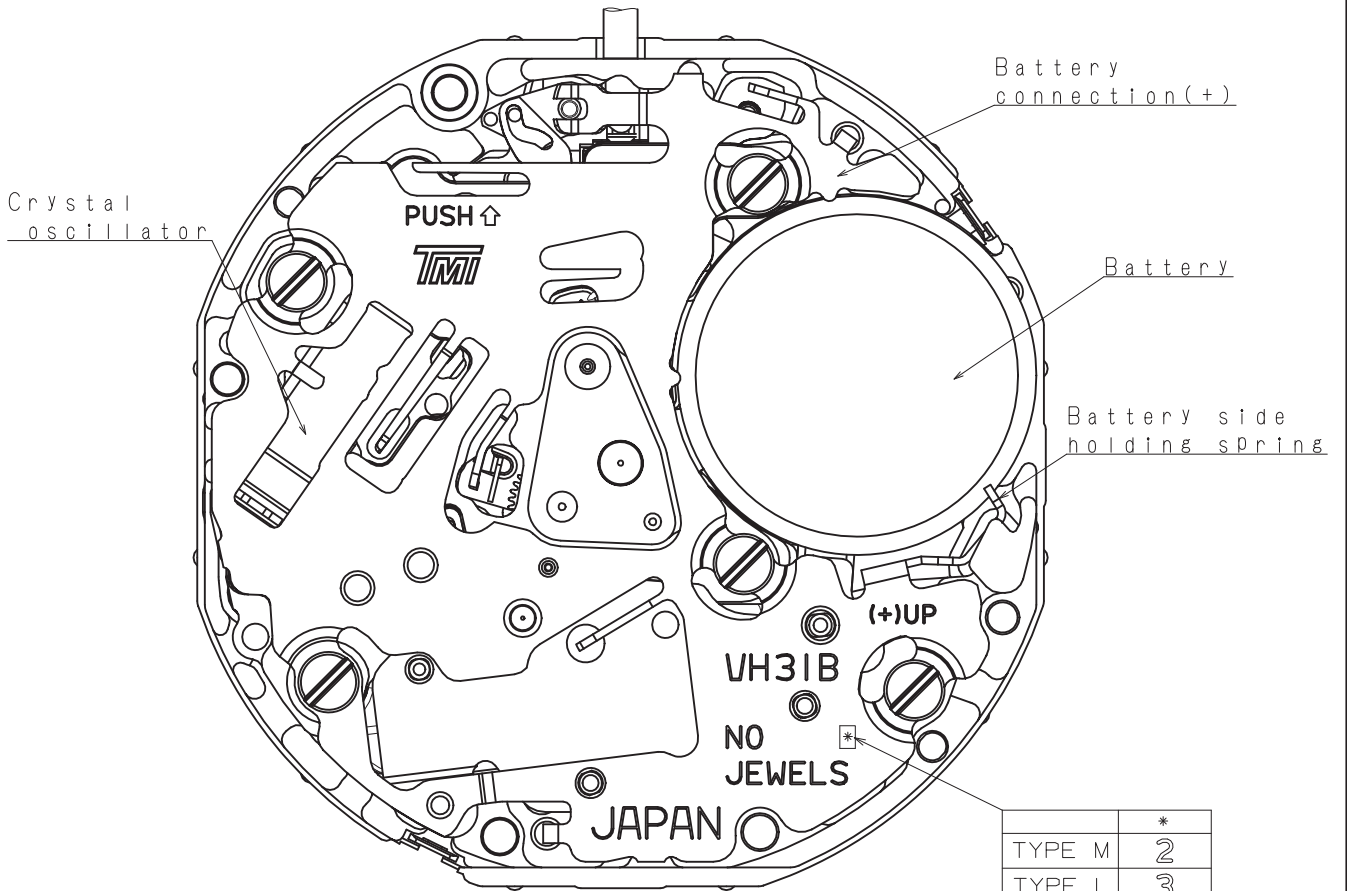
1. FUNCTION

· Jewel	0 jewels
· Accuracy	Less than ±15 seconds / month (Normal temperature range)
· Battery life	Approx. 2 years
· Regulation hands unbalance	Hour hand : Less than 0.50 μN·m (50 mg·mm) Minute hand : Less than 0.80 μN·m (80 mg·mm) Second hand : Less than 0.30 μN·m (30 mg·mm)

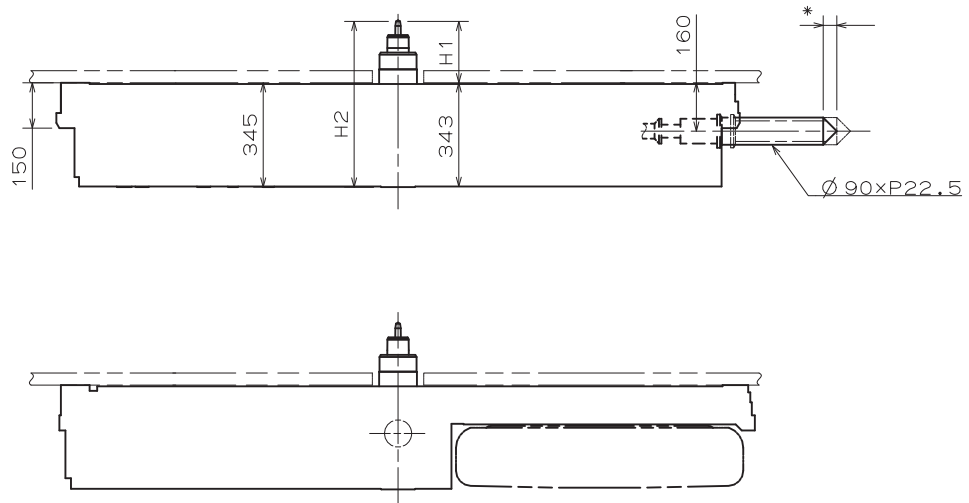
2. USE AND TEST CONDITION

· Battery	SR920SW	(Recommended battery is SEIZAIKEN)
· Operation temperature range	From - 5 °C to + 50 °C	
· Antimagnetic	≥1600 A / m	(Direct current magnetic field)
· Test of accuracy	10 seconds	(Duration of measurement)

*** All specifications are subject to change without notice.**

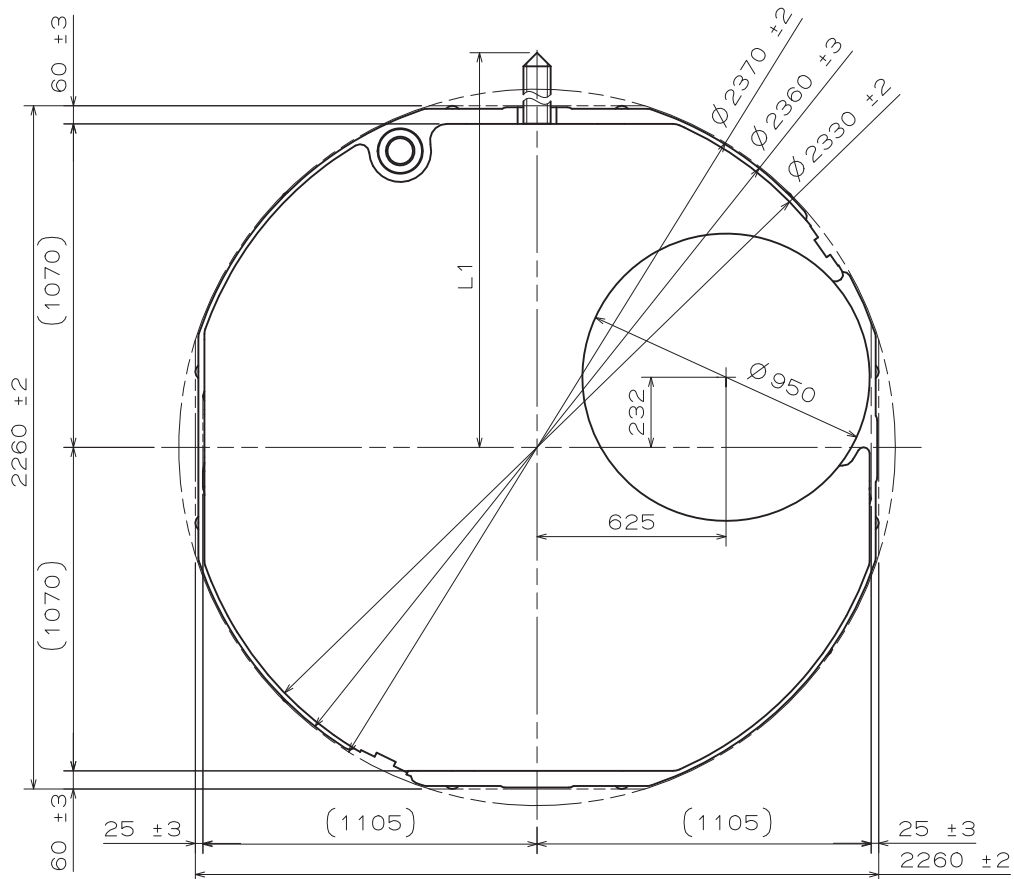


* Pull out stroke 44.1

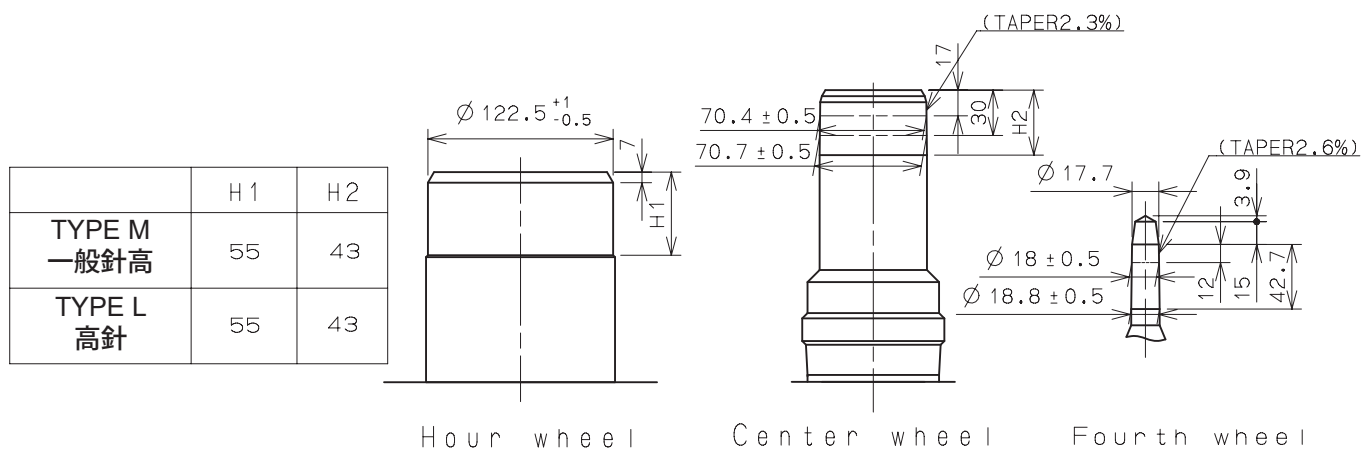


Center post 中心柱位		TYPE M 一般針高	TYPE L 高針
Maximum height from main plate surface 與機芯平面之最大高度	H1	203	238
Total height incl. movement 機芯總高度	H2	548	583

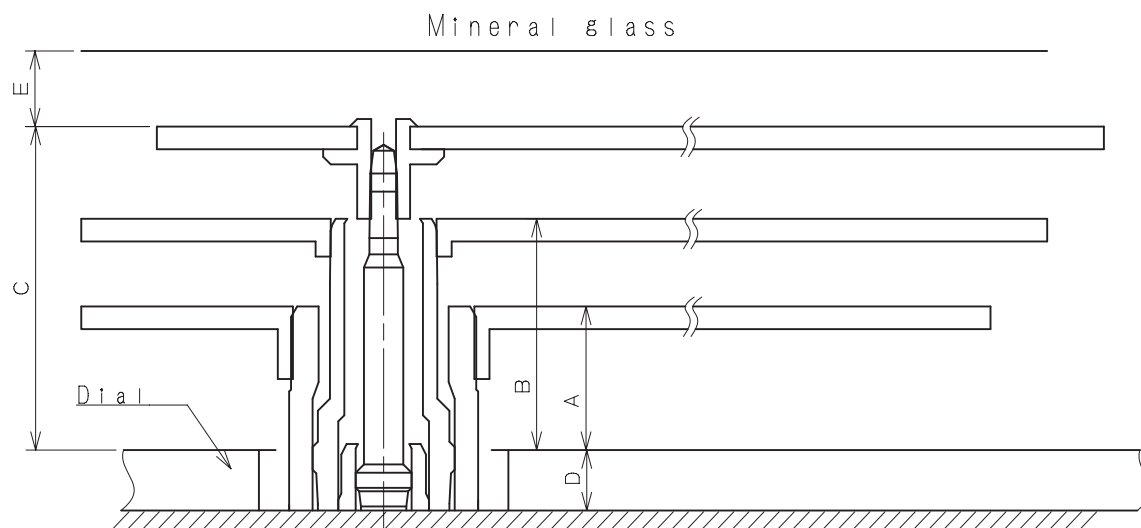
Hand setting stem	TYPE A	TYPE B
L1	2436	3012



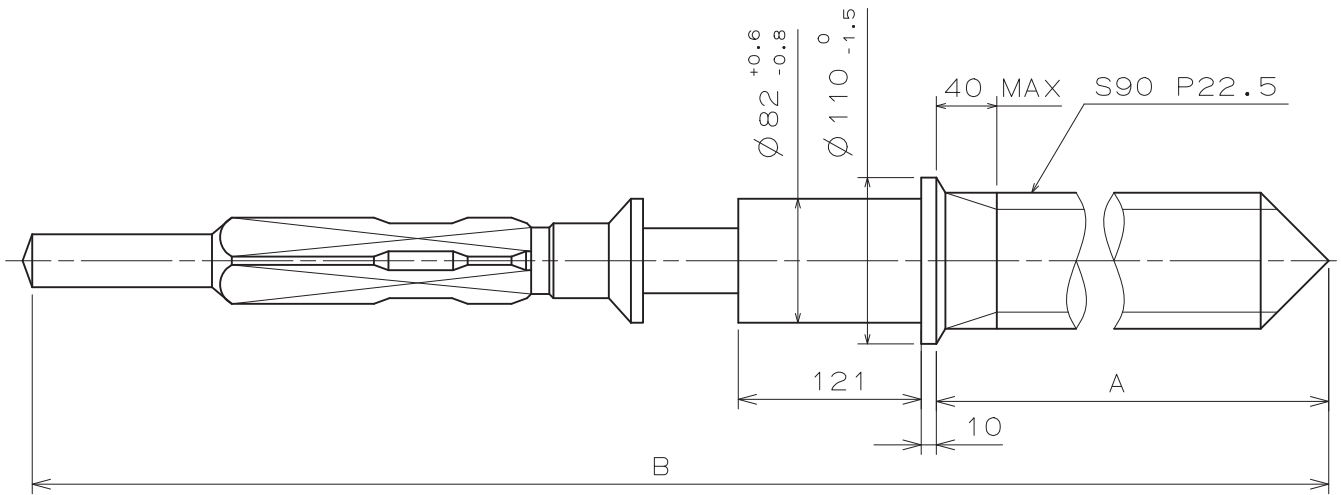
- *Hour hand unbalance $\leq 0.5 \mu\text{N}\cdot\text{m}$ (50mg·mm)
- *Minute hand unbalance $\leq 0.8 \mu\text{N}\cdot\text{m}$ (80mg·mm)
- *Second hand unbalance $\leq 0.3 \mu\text{N}\cdot\text{m}$ (30mg·mm)



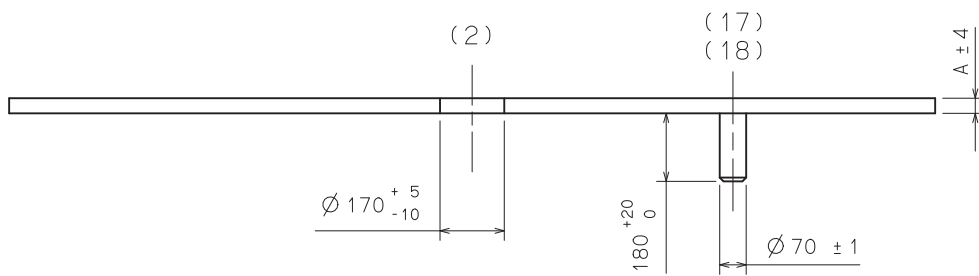
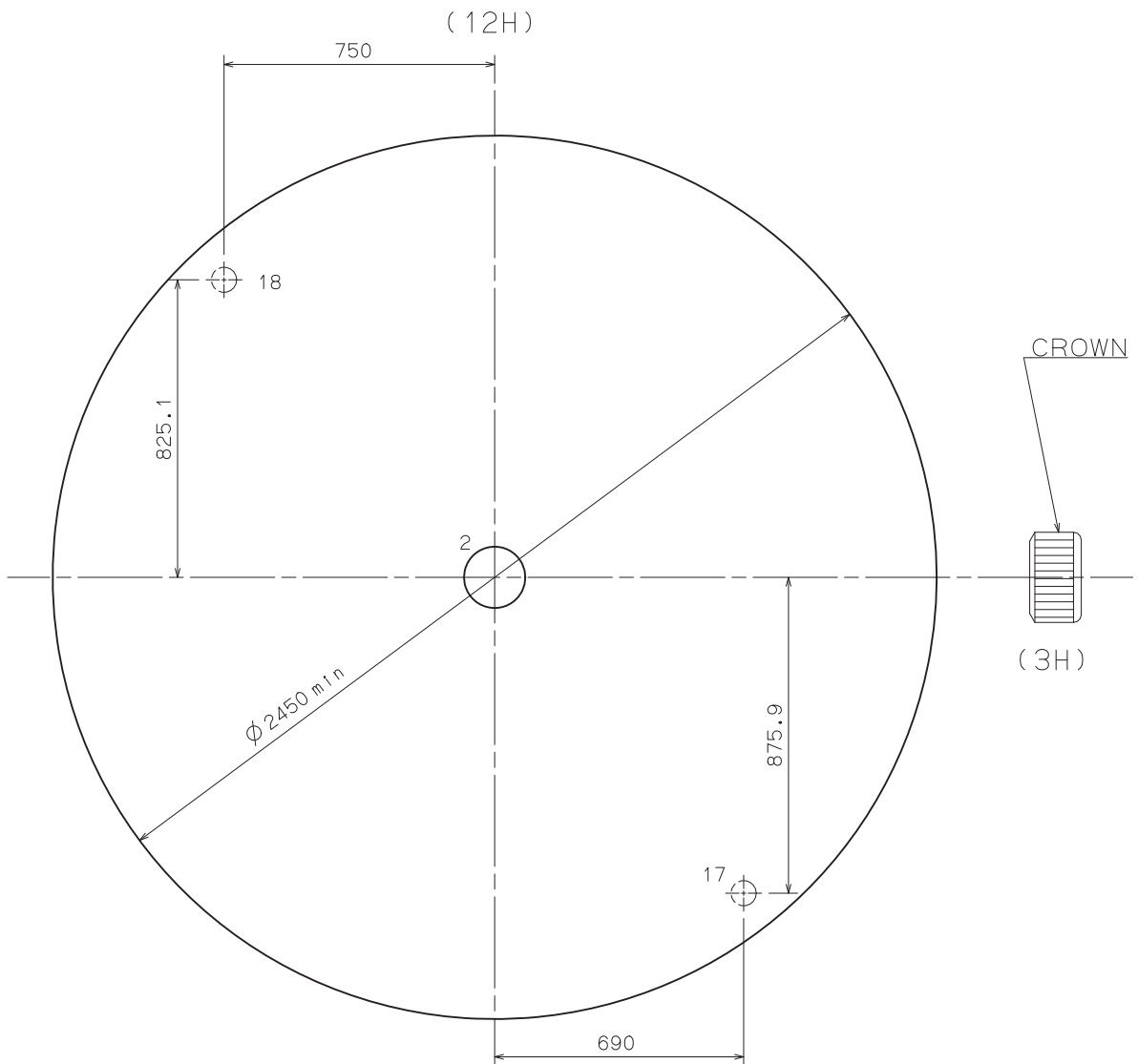
Part name	Part No.	
	TYPE M 一般針高	TYPE L 高針
Hour wheel 時針輪	0273 046	0273 043
Center wheel 分針輪	0221 095	0221 089
Fourth wheel 秒針輪	0144 006	0144 004



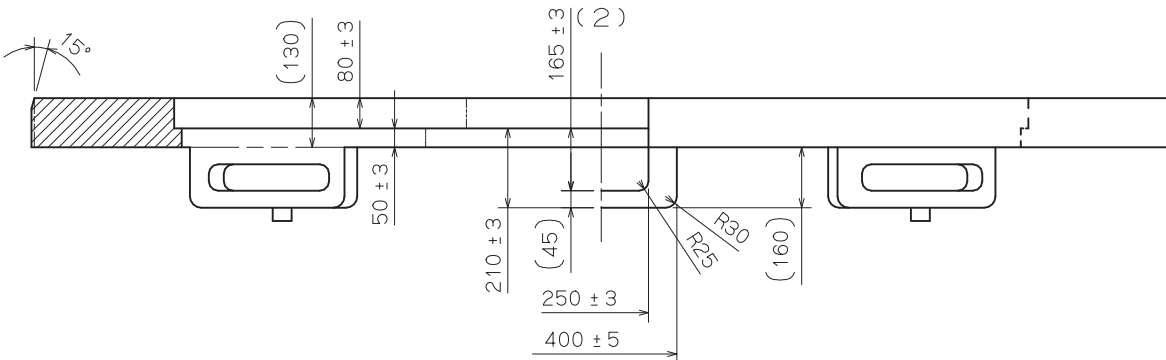
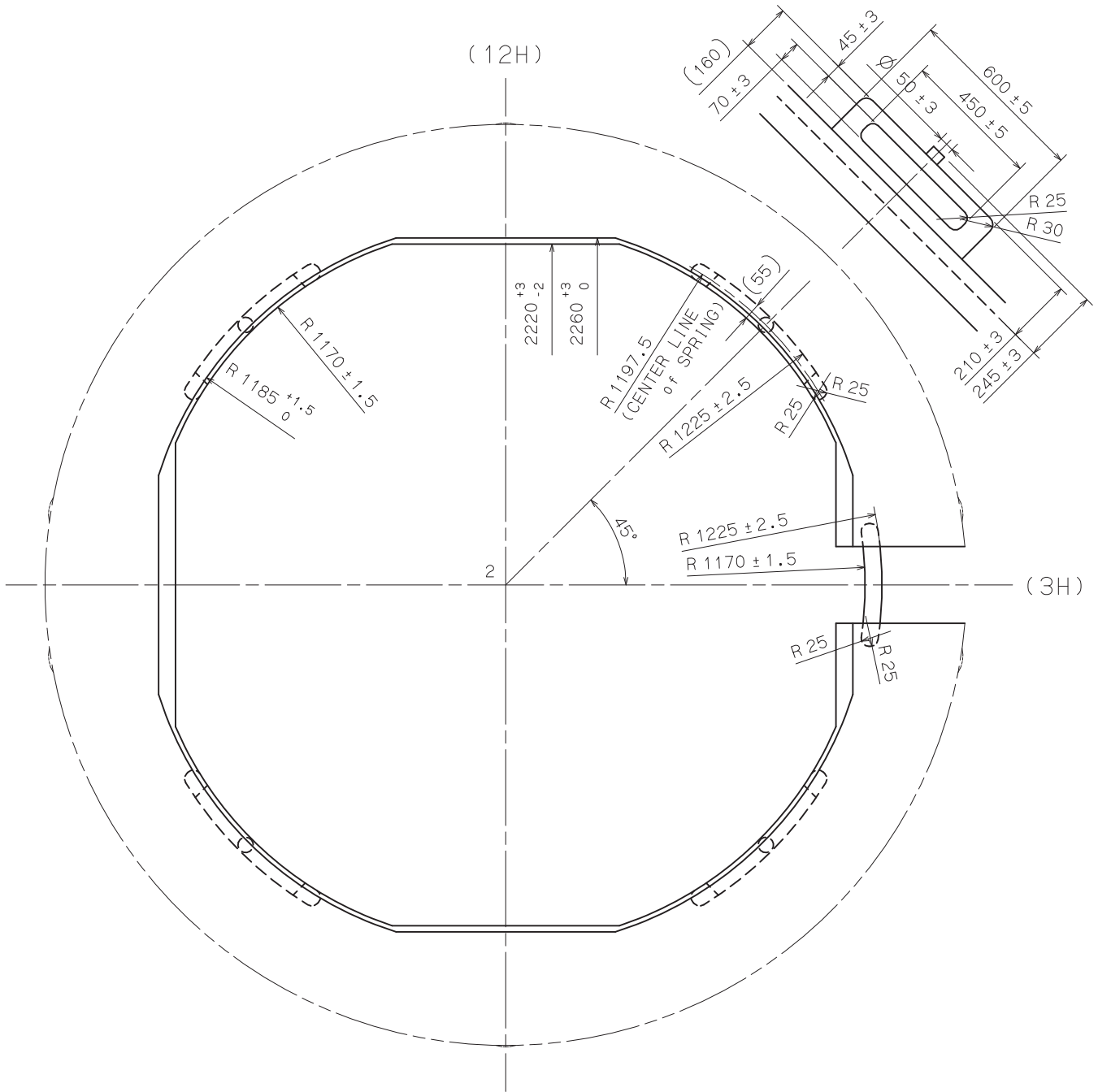
	A	B	C	D	E
TYPE M 一般針高	60	118	179	40	50
TYPE L 高針	50	108	169	85	50



	Part No.	A	B
TYPE A	0351 177	1371	1969
TYPE B	0351 122	1947	2545



	TYPE M	TYPE L
A	40	85



SECTIONAL VIEW of 12H DIRECTION

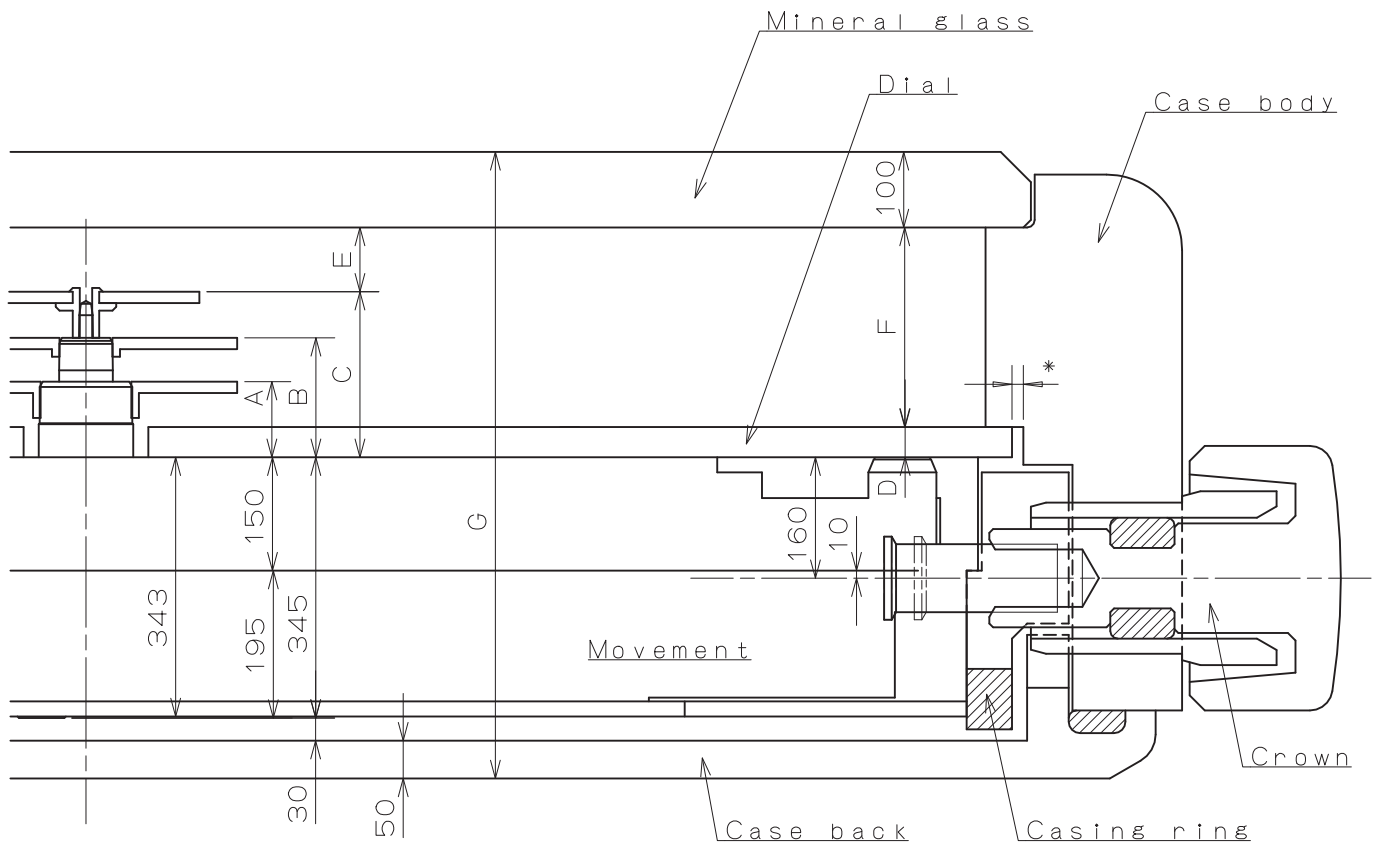
SIDE VIEW from 3H DIRECTION

Unit : 1=1/100mm

Version : 1

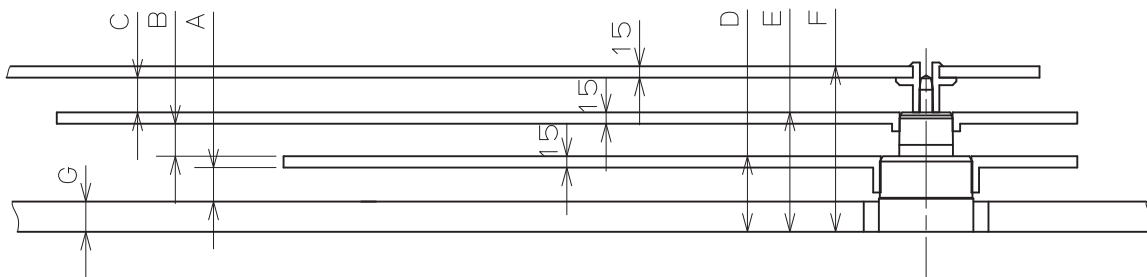
Assembly Plan

VH31B



	A	B	C	D	E	F	G
TYPE M	100	158	219	40	50	229	794
TYPE L	135	193	254	85	50	219	829

*Recommended dimension (Clearance of dial and case body): 15

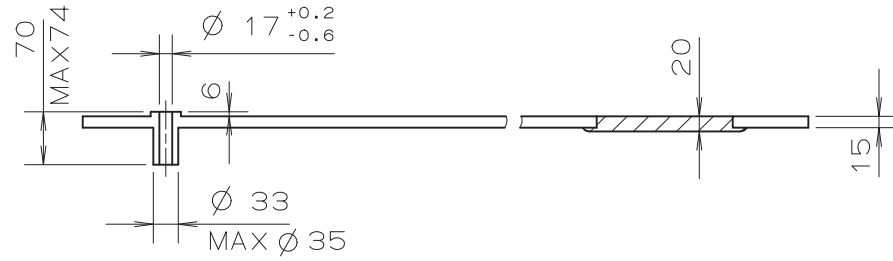


	A	B	C	D	E	F	G
TYPE M	45	43	46	100	158	219	40
TYPE L	35	43	46	135	193	254	85

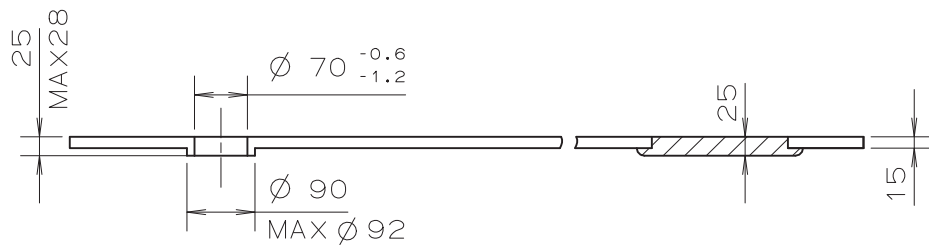
Unit : 1=1/100mm

Version : 1

SECOND



MINUTE



HOUR

