

Cal. VD72A

ϕ 23.70 mm

H 3.45 mm

Item	Version No.
Specification - 1	Version 3
Specification - 2	Version 1
Appearance	Version 3
Casing	Version 5
Hand Fitting	Version 3
Hand Setting Stem	Version 4
Dial	Version 2
Casing Ring	Version 1
Assembly Plan	Version 4
Hands	Version 2



MOVEMENT SPECIFICATION - 1

CAL.VD72A 10 1/2 Ligne Quartz Movement Two Hands with One Eye (Date)

1. MOVEMENT DIMENSIONS

- Outside diameter $\phi 23.70$ 22.60mm (12H~6H) x 22.60mm (3H~9H)
- Casing diameter $\phi 23.30$ 22.10mm (12H~6H) x 21.40mm (3H~9H)
- Total height 3.45 mm

2. TIME STANDARD

- Type of quartz oscillator Tuning fork
- Frequency of quartz oscillator 32,768 H Z
- Accuracy Monthly rate: Less than 20 seconds per month at normal temperature range
- Regulation device Nil
- Regulation hands unbalance Minute : Less than 0.6 μ N·m (60mg·mm)
Hour : Less than 0.6 μ N·m (60mg·mm)
Less than 0.05 μ N·m (5mg·mm)
for date hand
- Small hands unbalance

3. BATTERY

- Type Silver oxide battery
- Size $\phi 6.8$ x t 2.6 (mm)
- Nominal voltage 1.55V
- Battery life Approx. 3 years
- Recommended battery SR626SW (SEIZAIKEN)

4. STEPPING MOTOR

- Type Two pole stepping motor
- Step 180° every second

5. JEWEL

0 jewel

6. ANTIMAGNETISM

(direct current magnetic field)

≥ 1600 A / m

7. SHOCK RESISTANCE

On equal level with general quartz movement

8. OPERATING TEMPERATURE RANGE

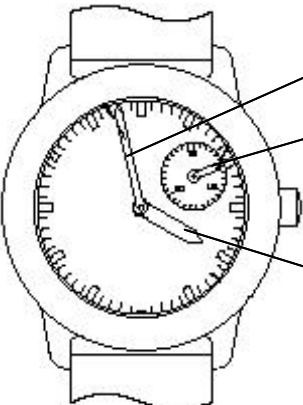
From - 5°C to + 50°C

9. TEST OF ACCURACY

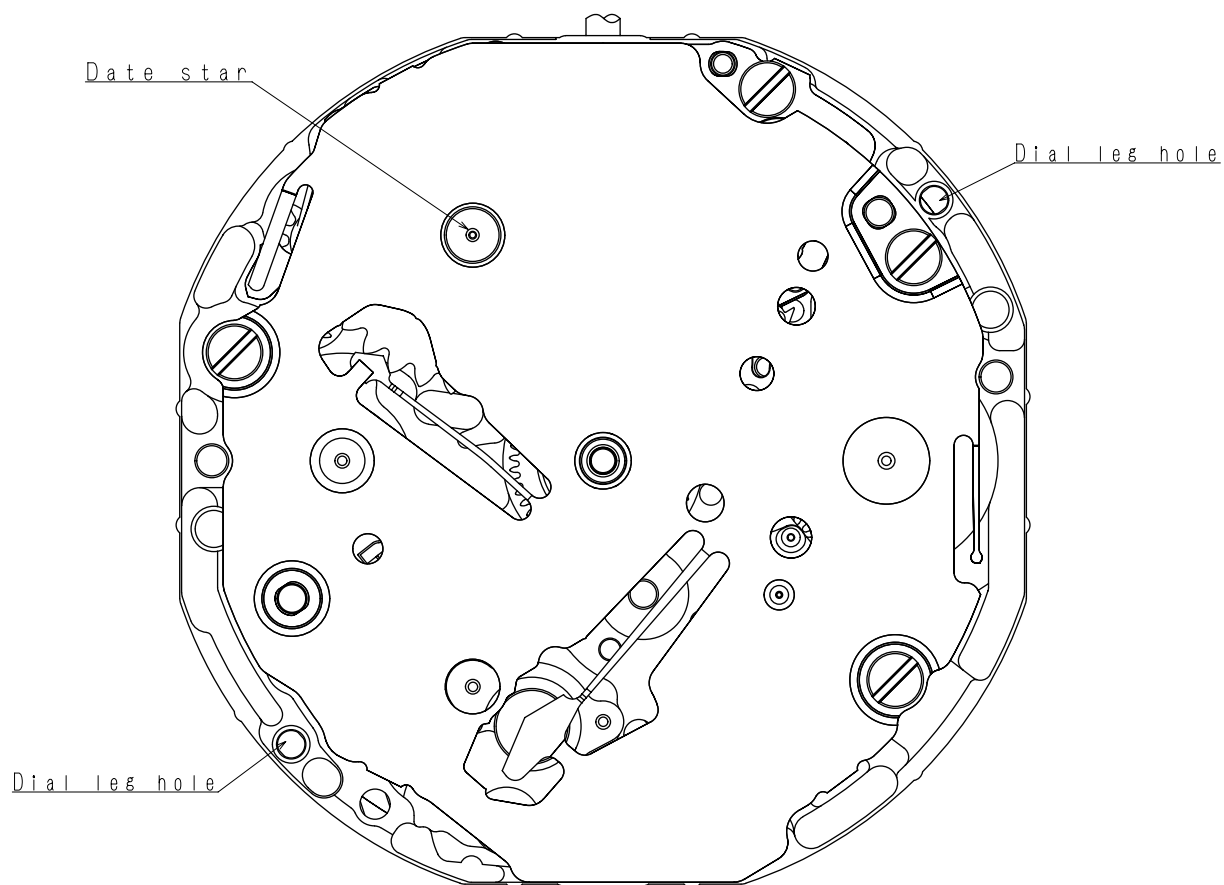
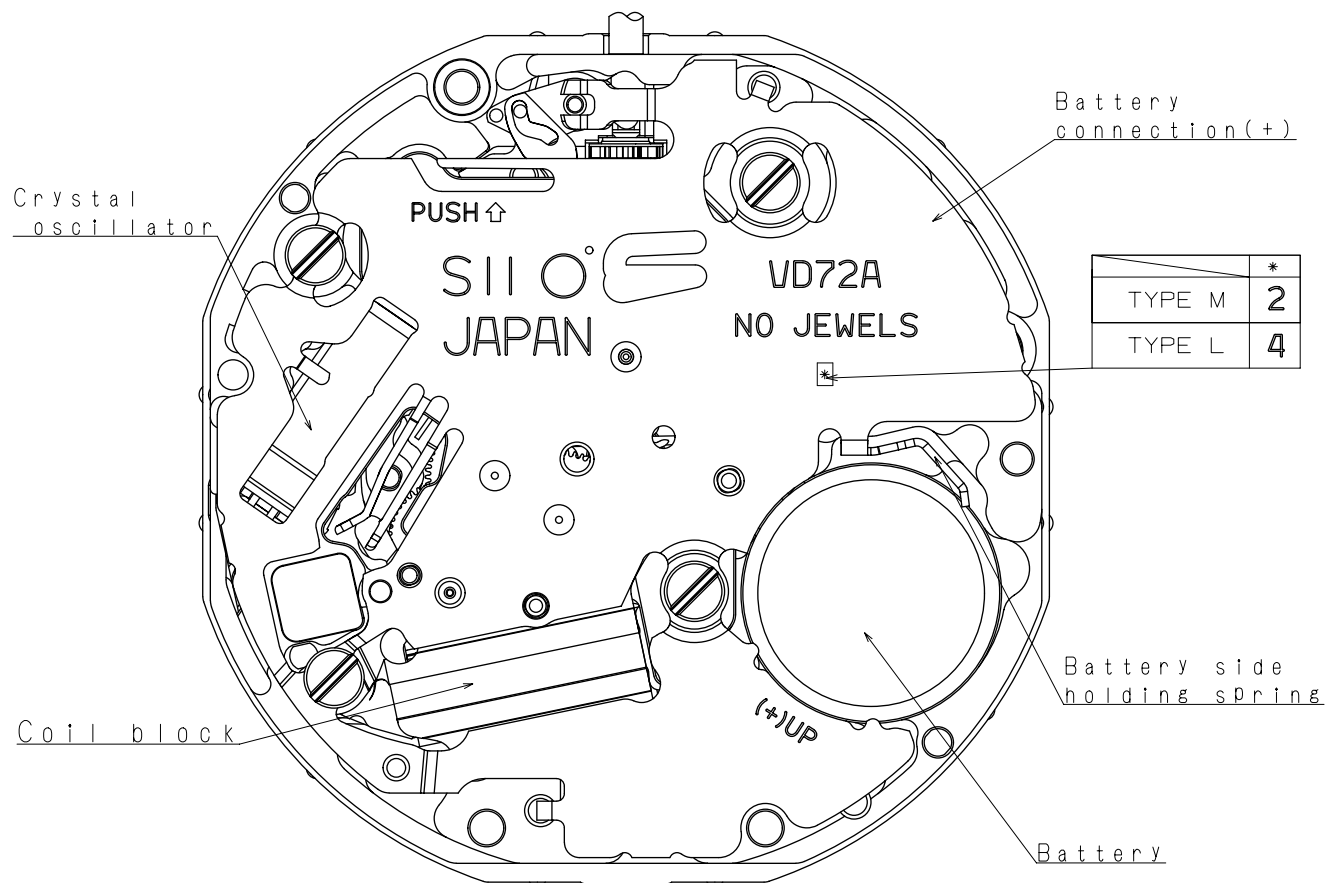
- Equipment to be used SEIKO Quartz Tester QT - 99
Greiner Quartz Timer - C
Watch Q-Tester 4000
- Duration of measurement 10 seconds
- Microphone to be used Electromagnetic detection type

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

Movement Specification - 2

CAL. VD72A		
OPERATION	[normal position]	 minute hand date hand no function (free) hour hand
	[1st click]	 date change (counter-clockwise)
	[2nd click]	 time setting and reset switch
		Version 1

SII Products

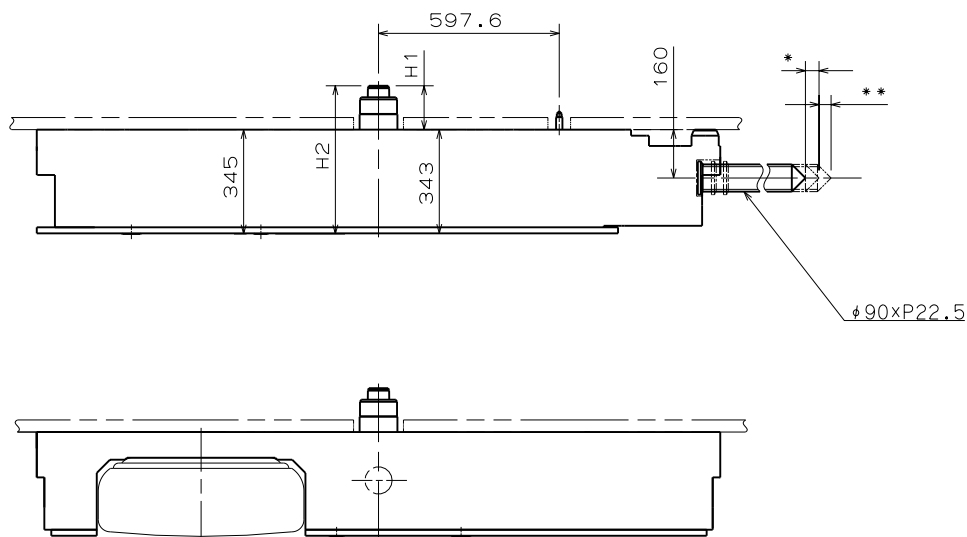


Scale : 5/1

Unit : 1=1/100mm

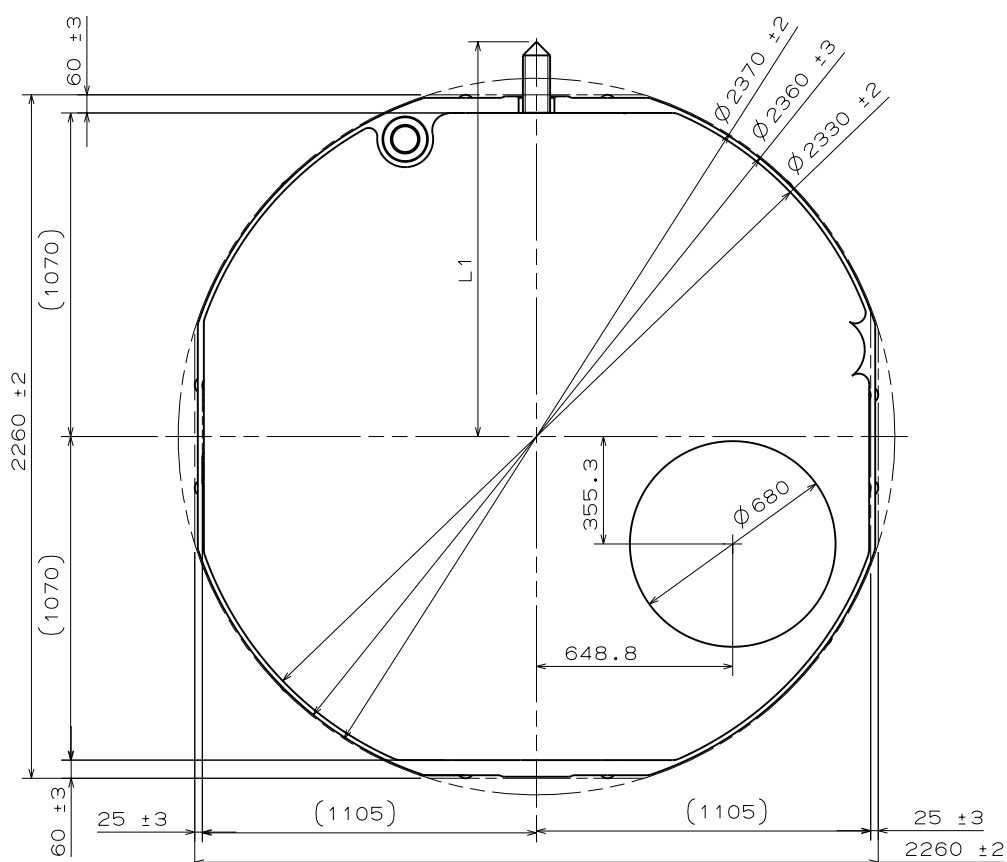
Version:3

- * First pull out stroke 45
- ** Second pull out stroke 39.9



Center Post		TYPE M	TYPE L
Maximum height from main plate surface	H1	150	230
Total height incl. movement	H2	495	575

Hand Setting Stem	TYPE A	TYPE B
L1	2436	3012

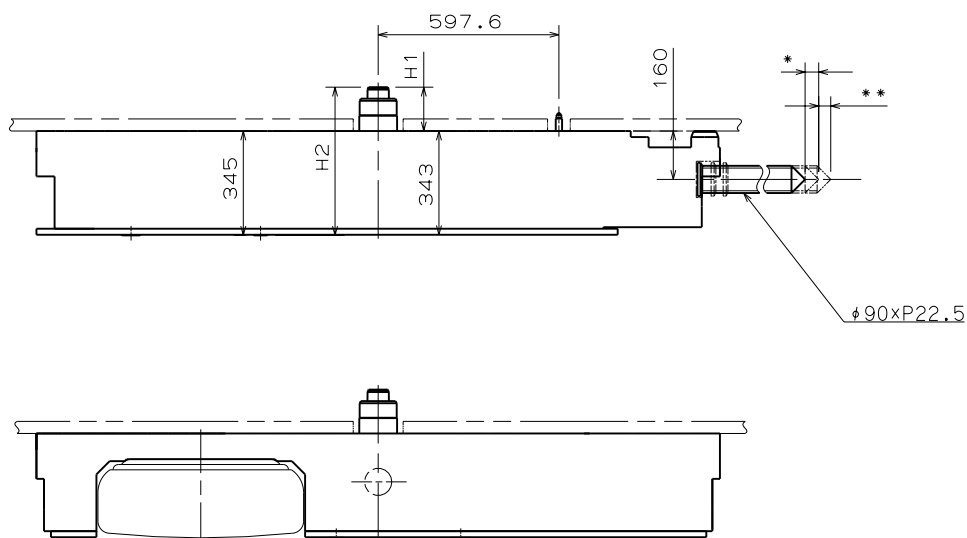


Scale : 4/1

Unit : 1=1/100mm

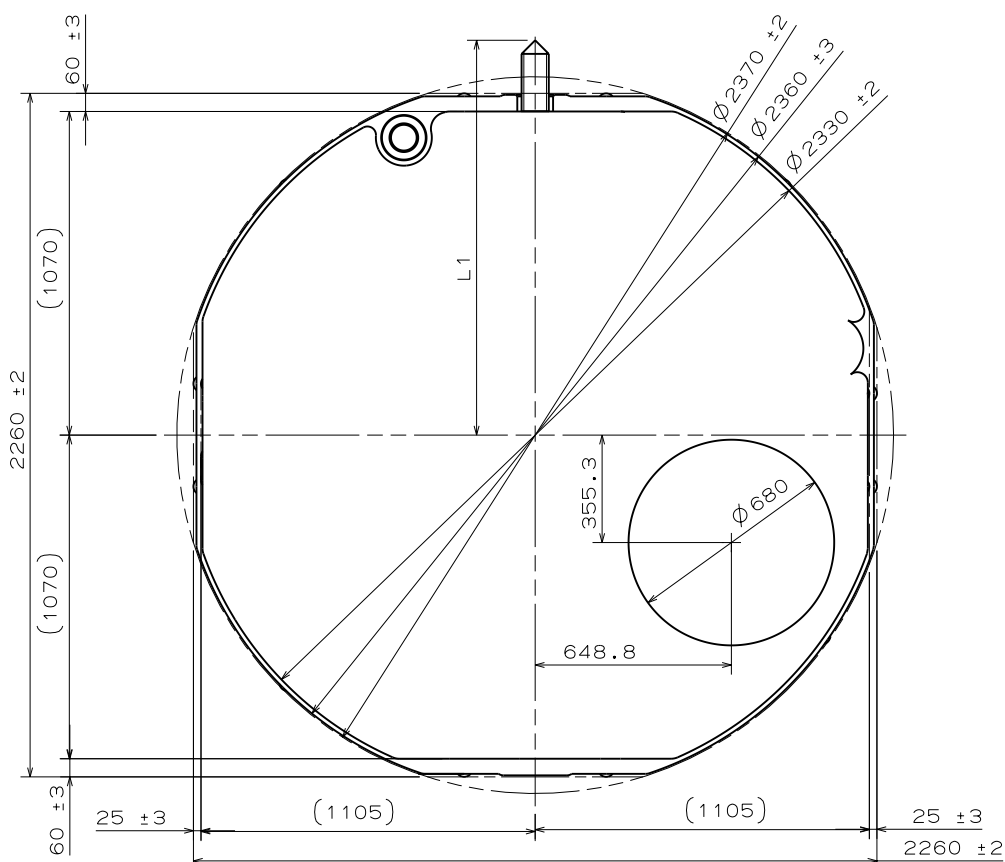
Version:5

- * First pull out stroke 45
- ** Second pull out stroke 39.9



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	150	230
Total height incl. movement 機芯總高度	H2	495	575

Hand Setting Stem	TYPE A	TYPE B
L1	2436	3012



Scale : 4/1

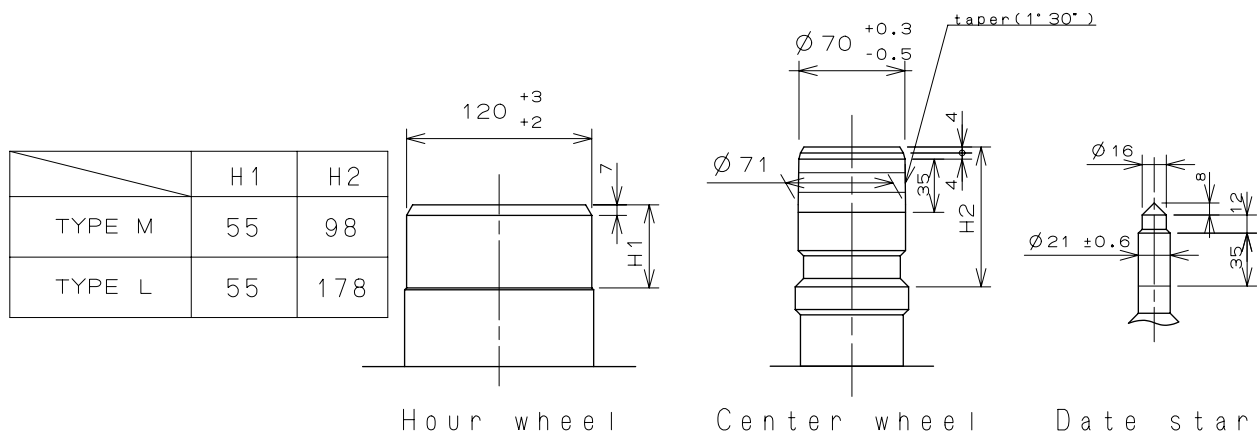
Unit : 1=1/100mm

Version:5

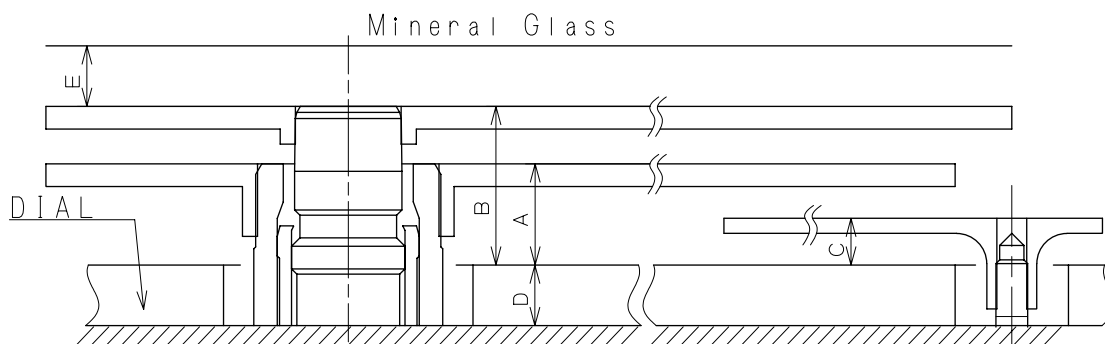
Hand Fitting

Cal. VD72A

- *Hour hand unbalance $\leq 0.6 \mu\text{N} \cdot \text{m}$ (60mg·mm)
- *Minute hand unbalance $\leq 0.6 \mu\text{N} \cdot \text{m}$ (60mg·mm)
- *Date hand unbalance $\leq 0.05 \mu\text{N} \cdot \text{m}$ (5mg·mm)



Part name	Part No.	
	TYPE M	TYPE L
Hour wheel	0273 1690	0273 0350
Center wheel	0221 0690	0221 0760
Date star	0970 1690	0970 0370



	A	B	C	D	E
TYPE M	72	110	31	40	35
TYPE L	95	145	41	85	40

Scale : 20/1

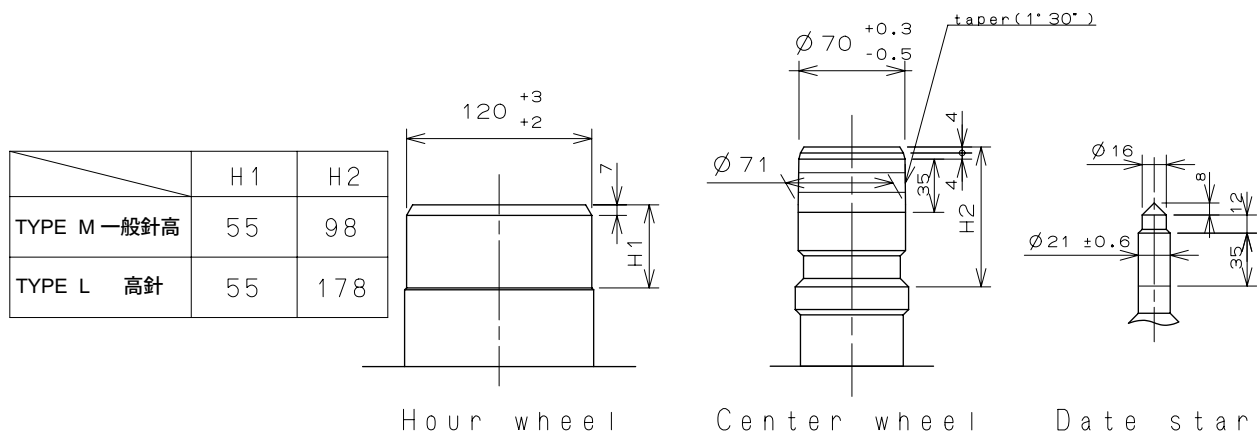
Unit : 1=1/100mm

Version:3

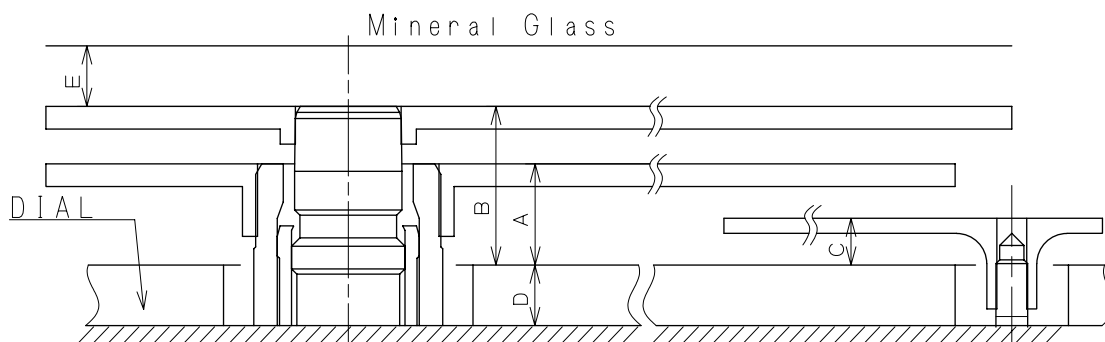
Hand Fitting

Cal. VD72A

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- *Minute hand unbalance $\leq 0.6 \mu\text{N} \cdot \text{m}$ (60mg·mm)
- *Date hand unbalance $\leq 0.05 \mu\text{N} \cdot \text{m}$ (5mg·mm)



Part name	Part No.	
	TYPE M 一般針高	TYPE L 高針
Hour wheel 時針輪	0273 1690	0273 0350
Center wheel 分針輪	0221 0690	0221 0760
Date star 日曆針輪	0970 1690	0970 0370

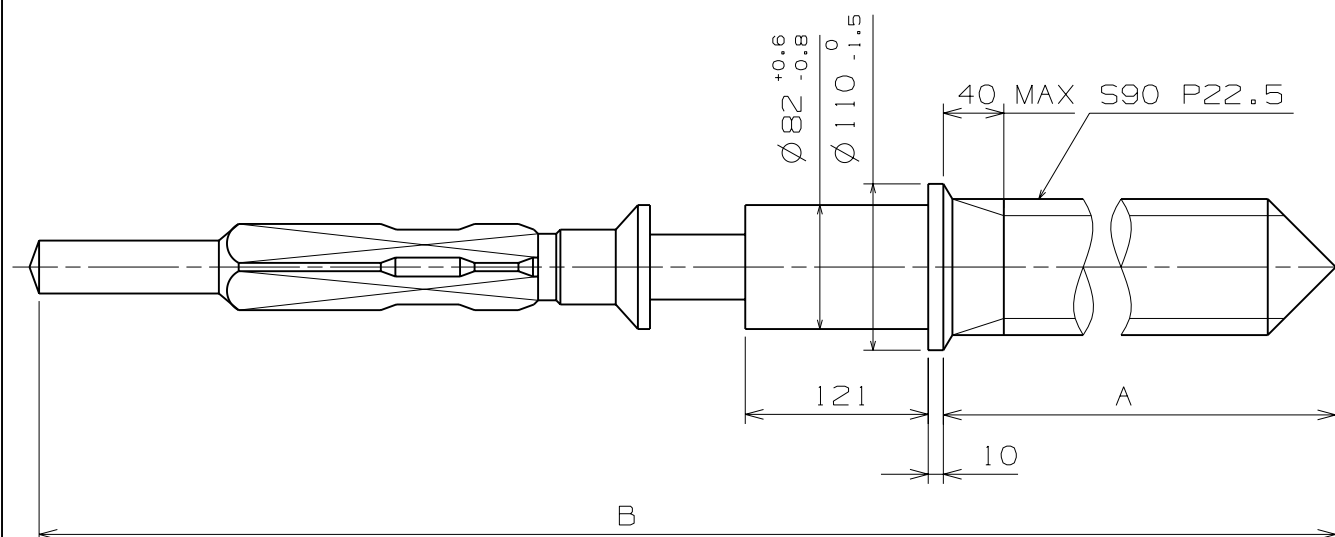


	A	B	C	D	E
TYPE M 一般針高	72	110	31	40	35
TYPE L 高針	95	145	41	85	40

Scale : 20/1

Unit : 1=1/100mm

Version:3

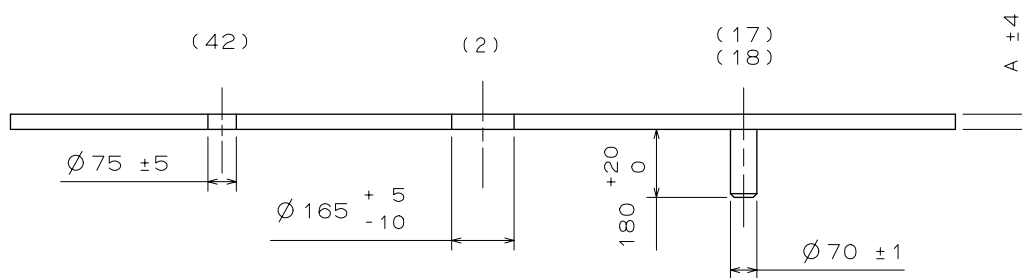
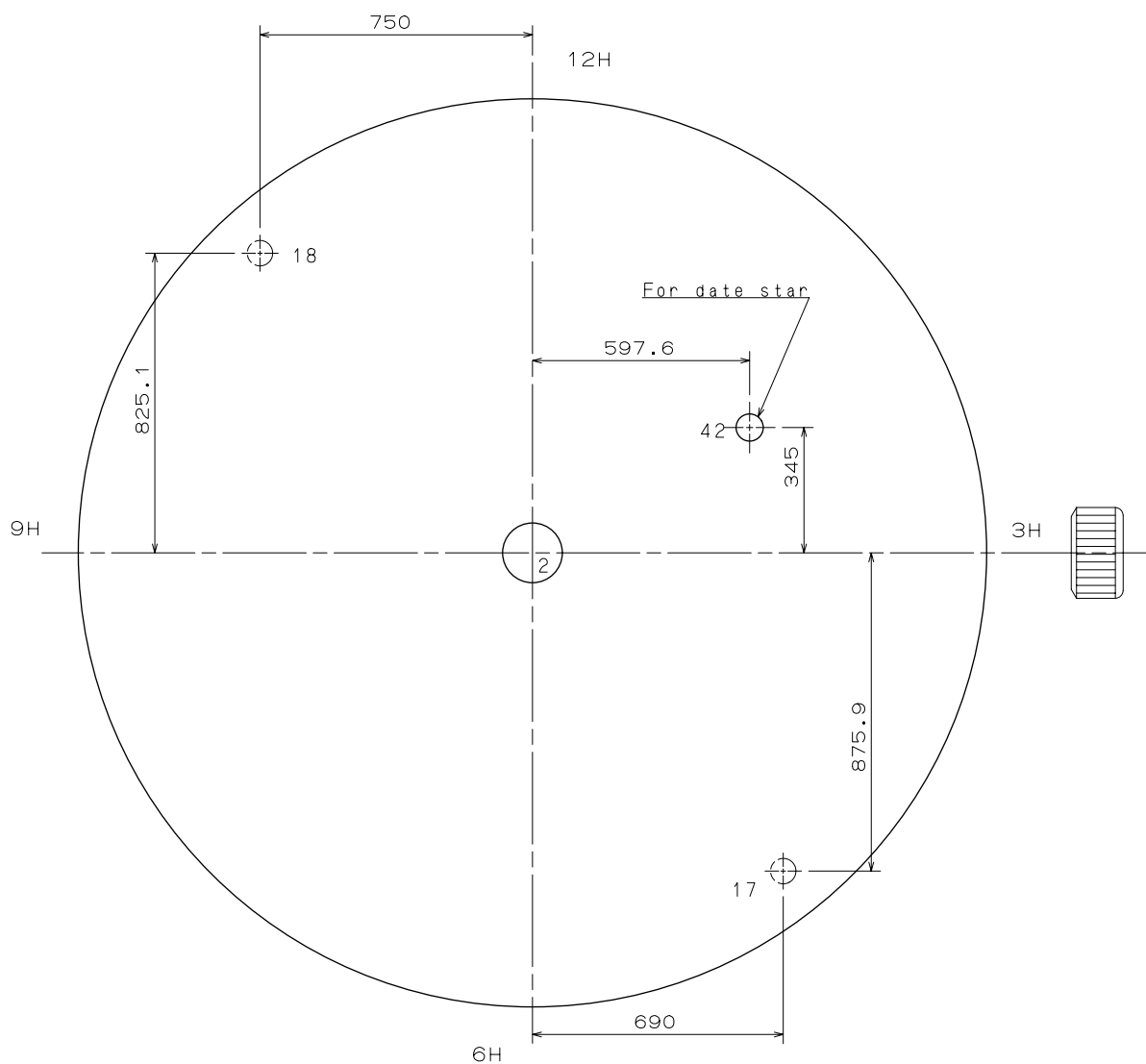


	Part. No.	A	B
TYPE A	0351 1770	1371	1969
TYPE B	0351 1220	1947	2545

Scale : 20/1

Unit : 1=1/100mm

Version:4



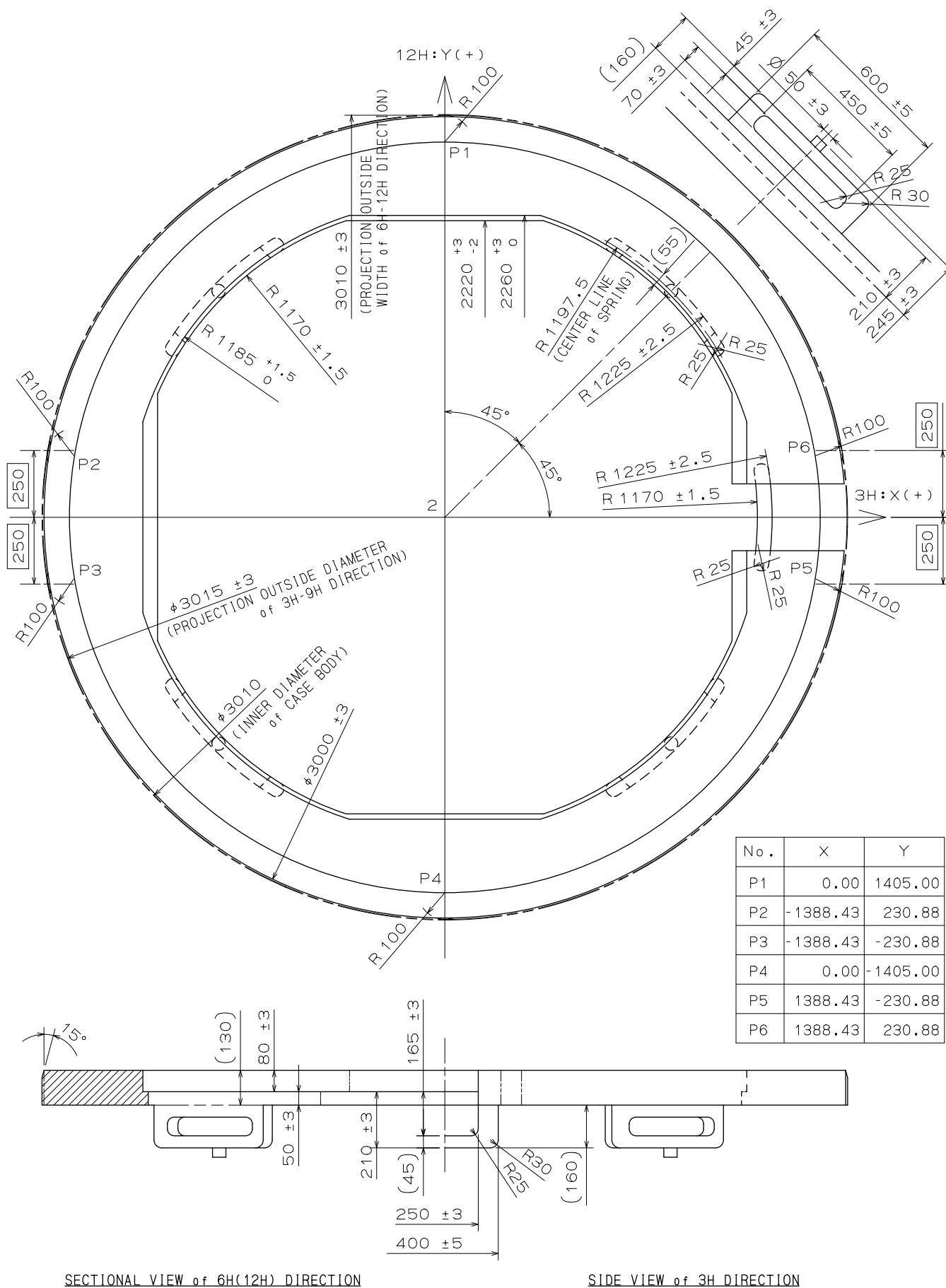
	TYPE M	TYPE L
A	40	85

Scale : 5/1
Unit : 1=1/100mm

Version:2

Casing Ring

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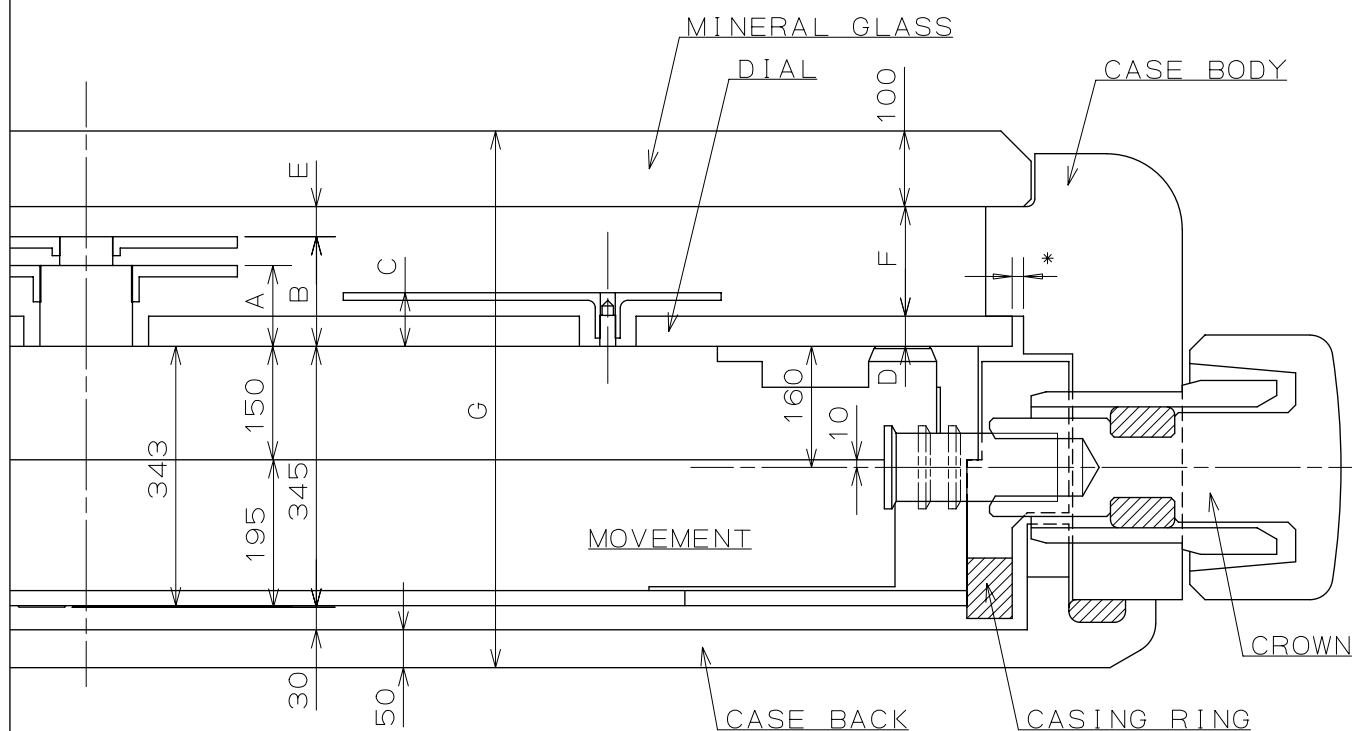


Scale : 5/1
Unit : 1=1/100mm

Version:1

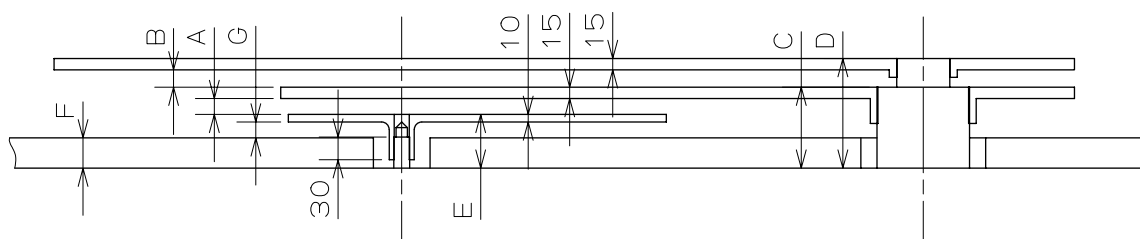
Assembly Plan

Cal. VD72A



	A	B	C	D	E	F	G
TYPE M	112	150	71	40	35	145	710
TYPE L	180	230	126	85	40	185	795

*Recommended Dimension(Clearance of DIAL and CASE BODY):15



	A	B	C	D	E	F	G
TYPE M	26	23	112	150	71	40	21
TYPE L	39	35	180	230	126	85	31

Scale : 10/1
Unit : 1=1/100mm

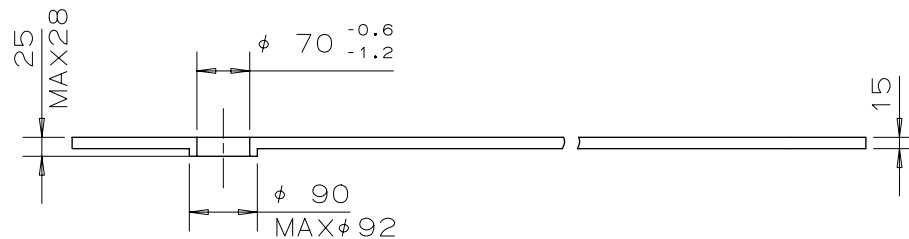
Version:4

Hands

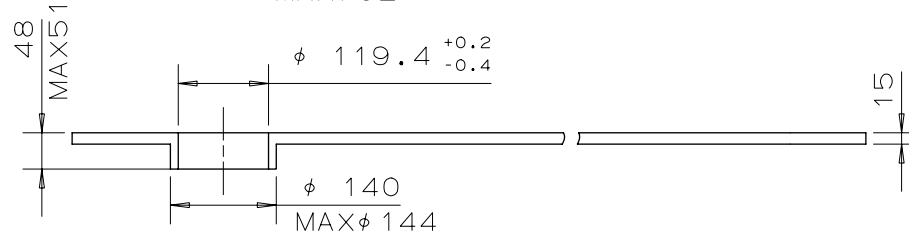
Cal. VD72A

TYPE M

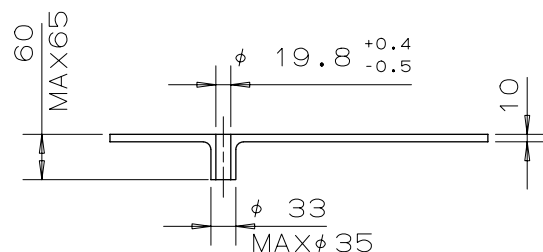
MINUTE



HOUR

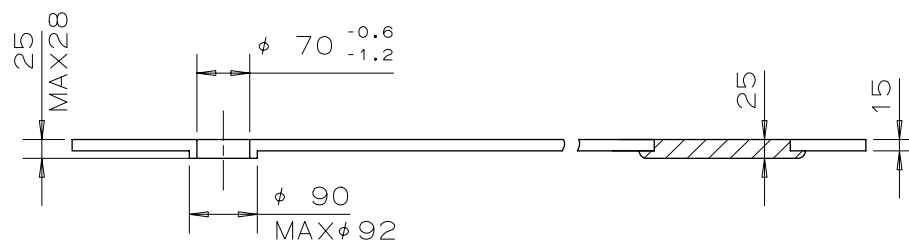


DATE

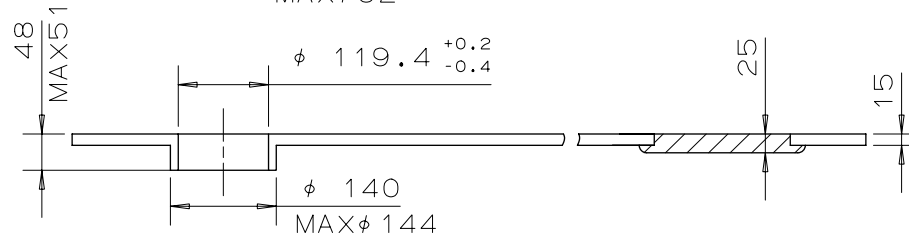


TYPE L

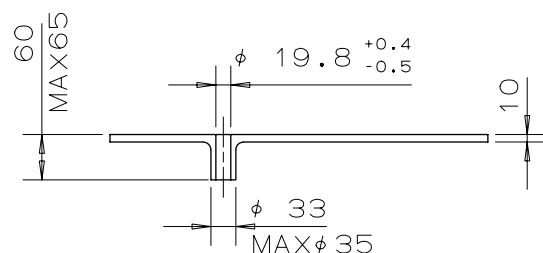
MINUTE



HOUR



DATE



Scale : 10/1

Unit : 1=1/100mm

Version : 2