EPSON

Watch Movement Specification and Drawing

CALENDAR

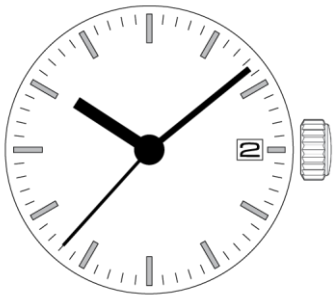
Cal. VX82E

Movement Size

6 3/4 × 8”’

Casing Diameter

15.3 × 17.4 mm



Height

2.75mm

Battery Life

3 years

Date: 18/Sep./'20

Cal. VX82E

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Cal. VX82E	Specifications	Date : 18/Sep./'20
		Rev. : 04

Analog Quartz 6 3/4 × 8''' Slim Movement / Three Hands (H/M/S) with Calendar

1. MOVEMENT DIMENSIONS

Outside diameter	15.70mm(3-9H) × 17.80mm(12-6H)
Casing diameter	15.30mm(3-9H) × 17.40mm(12-6H)
Total height	2.75mm (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℃ to +50℃
Regulation device	Nil (Pre-adjusted)

3. INDICATOR / FUNCTIONS

3 Hands	Hour / Minute / Second	
Calendar	Instant setting device for date calendar	
Reset switch		
Setting mechanism	Crown at normal position	: Free
	Crown pulled out 1st click	: Instant date change
	Crown pulled out 2nd click	: Time setting / Reset

4. FEATURES

Jewels	0 Jewels	
Anti-magnetism	Over 1600A/m (Direct current magnetic field)	
Maximum unbalance of hands	Hour hand	: 0.5 μN・m
	Minute hand	: 0.6 μN・m
	Second hand	: 0.07 μN・m

5. BATTERY

Type / Size	Silver oxide battery / φ6.8mm × t 2.1mm
Recommended battery	SR621SW (Maxell, Murata, Seizaiken)
Nominal voltage	1.55 V
Battery life	Approx. 3 years
Driving current consumption	Approx. 0.80 μA
Operation stopping voltage	0.9 V

6. SEPARATED PARTS (Parts code)

Hand setting stem	0351177 or 0351578
Battery	SR621SW

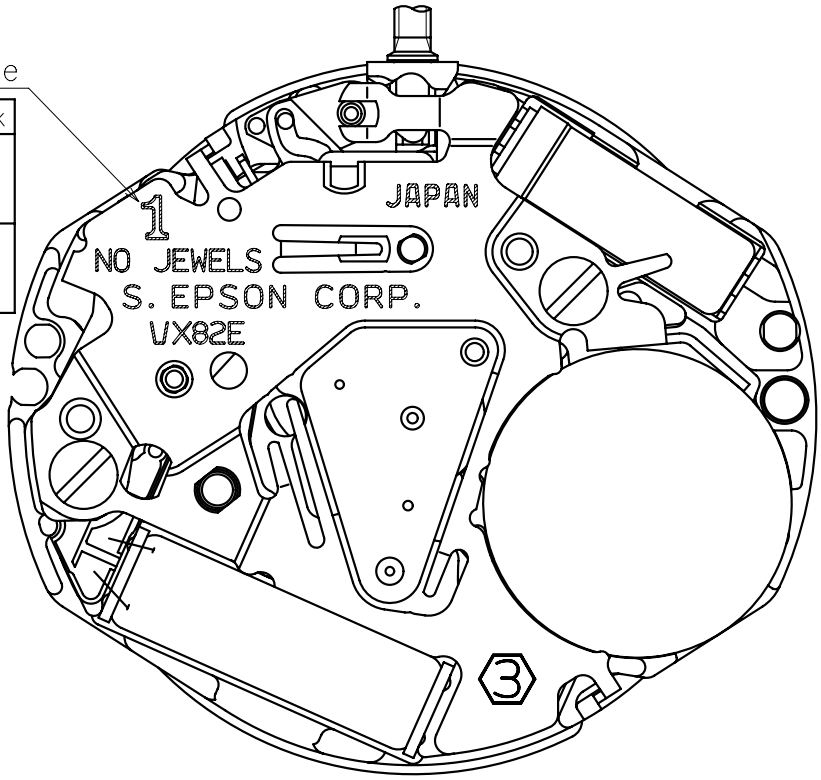
7. TEST OF ACCURACY

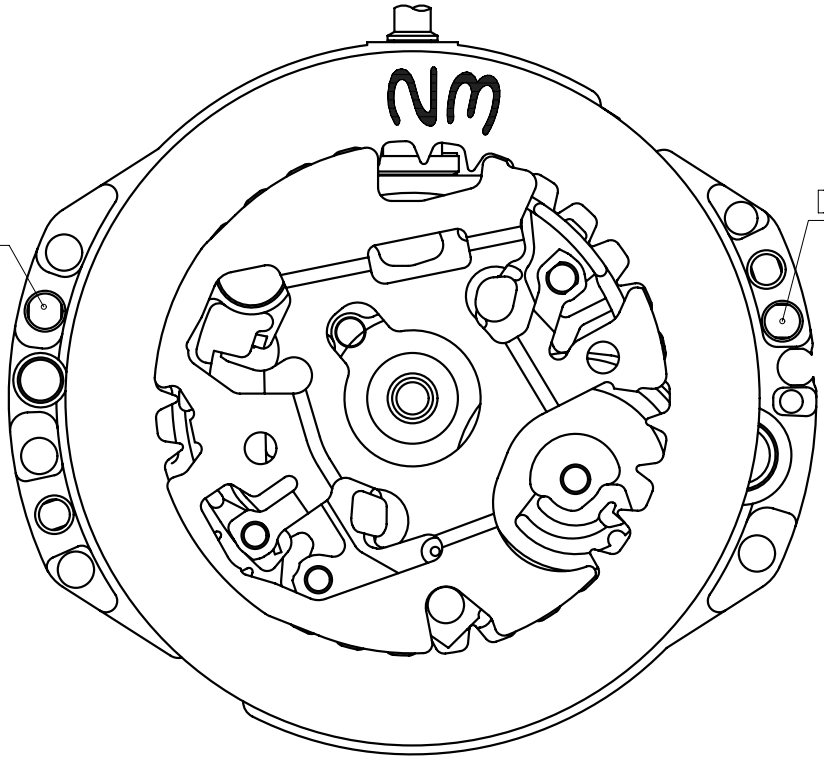
Equipment to be used	SEIKO quartz tester QT-99, Greiner quartz timer-C , Witschi Q-tester 4000
Duration of measurement	10 seconds
Microphone to be used	Electromagnetic detection type

All specifications are subject to change without notice.

Hands type

	Mark
Type S (1) VX82E1**	1
Type M (2) VX82E2**	2

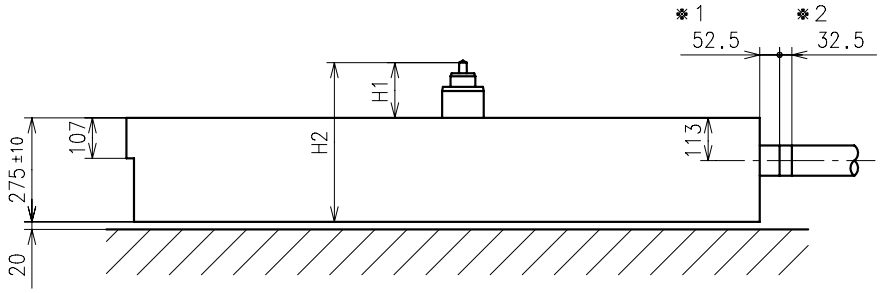




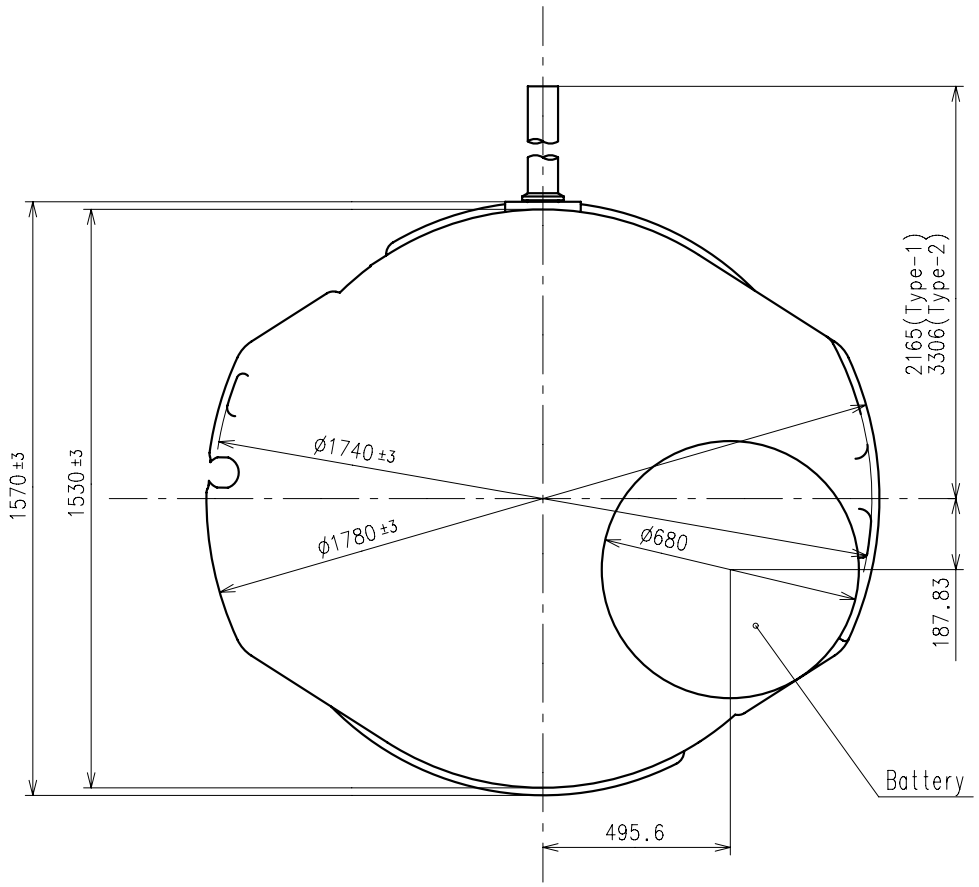
Dial leg hole B

Dial leg hole A

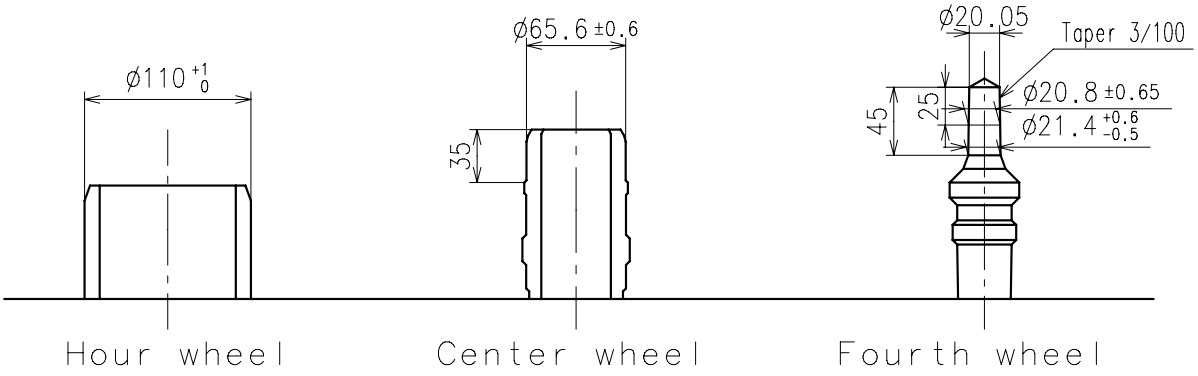
※1:First pullout stroke
※2:Second pullout stroke



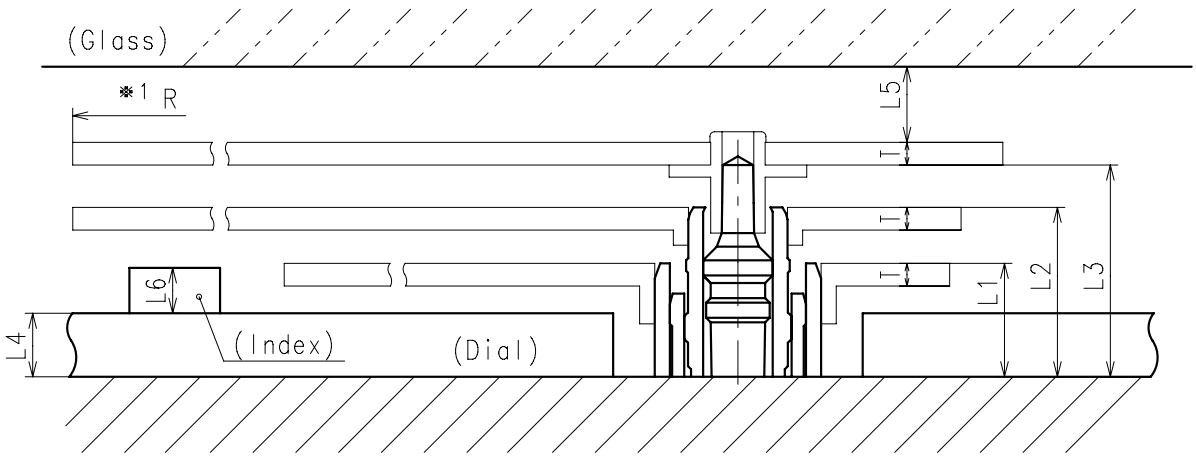
Center post		Type S (1) VX82E1**	Type M (2) VX82E2**
Maximum height from dial support	H1	140	182
Total height including movement	H2	415	457



※ Hour hand unbalance ≦ 0.5μ N・m (50μ g・m)
※ Minute hand unbalance ≦ 0.6μ N・m (60μ g・m)
※ Second hand unbalance ≦ 0.07μ N・m(7μ g・m)



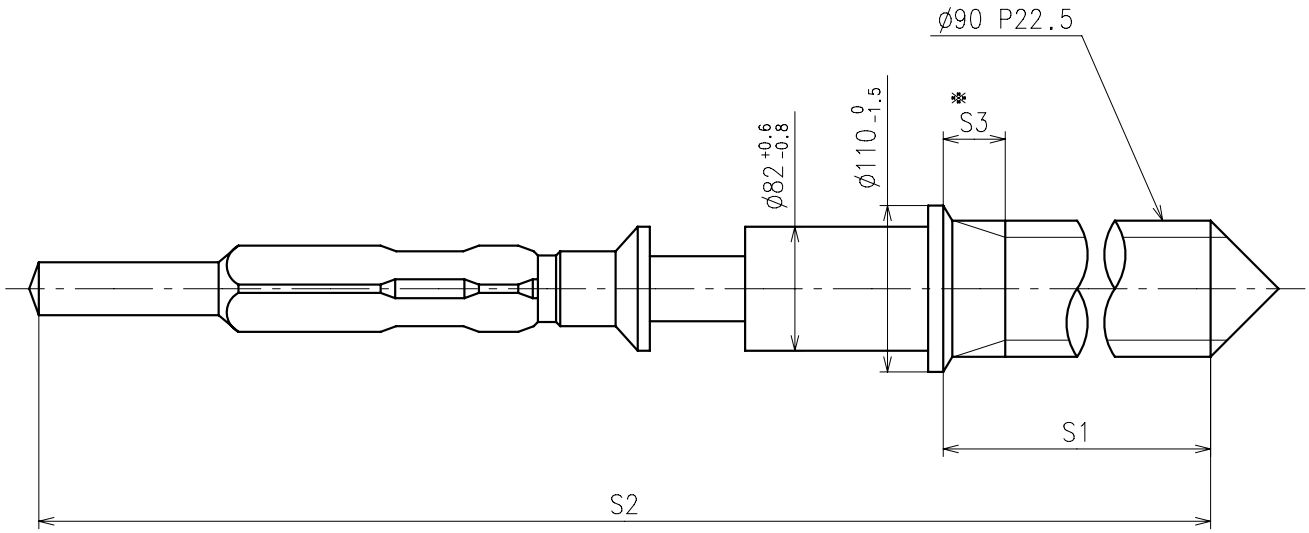
	Parts No.		
	Hour wheel	Center wheel	Fourth wheel
Type S (1) VX82E1**	0271929	0221929	0241929
Type M (2) VX82E2**	0271942	0221904	0241904



	L1	L2	L3	L4	L5	L6	T	※1 R
Type S (1) VX82E1**	75	112	140	40	MIN: 50	MAX: 30	15	MAX: 1250
Type M (2) VX82E2**	105	154	182	40	MIN: 50	MAX: 60	15	MAX: 1250

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

Cal. VX82E	Hand setting stem	Date:28/Feb./'14
		Rev.:02



※ Not threaded

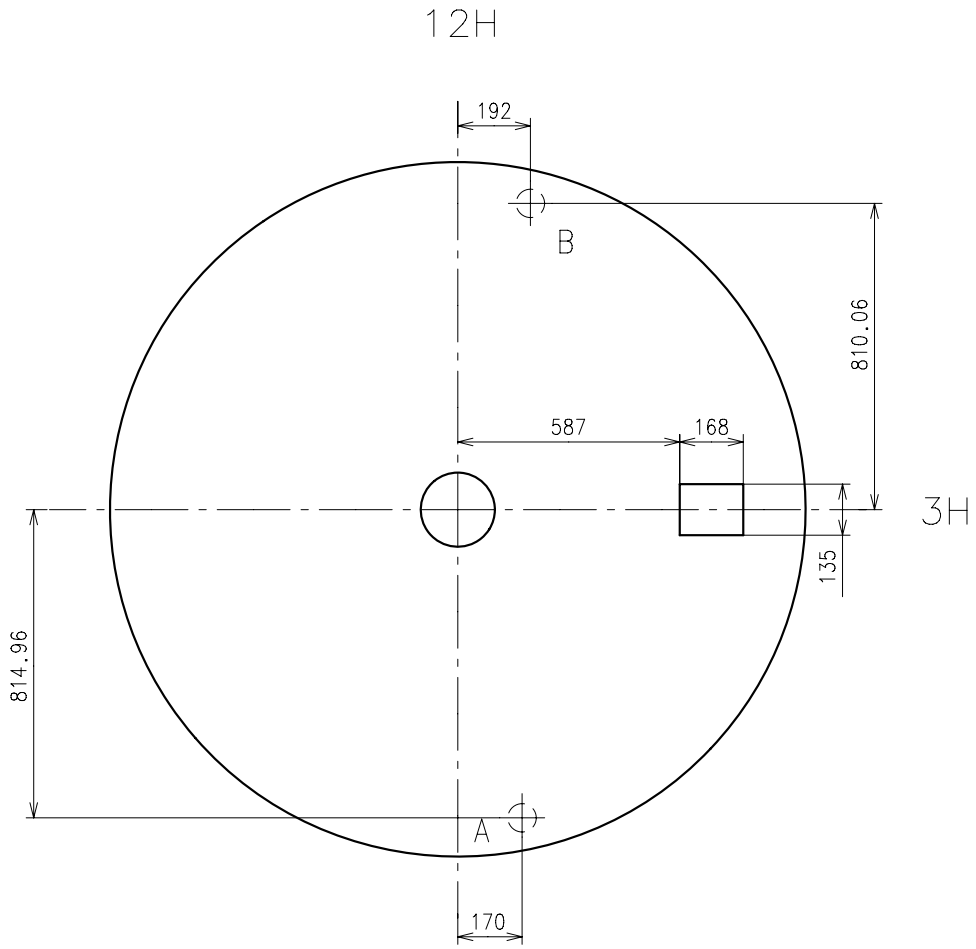
	Part No.	S1	S2	※ S3
Type-1 (Standard)	0351177	1366	1964	60
Type-2	0351578	2507	3105	650

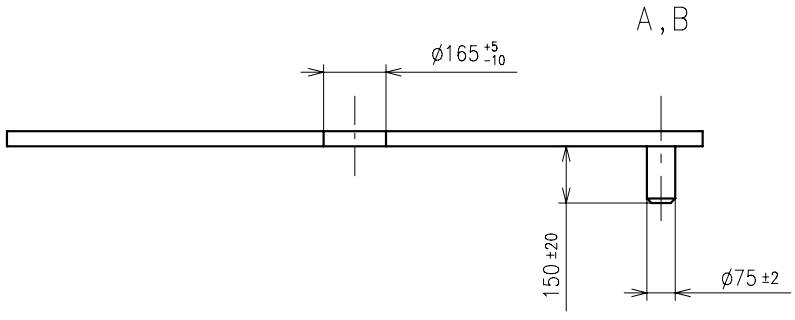
Material : Steel

Hardness : Vickers 600±50

Unit : 1=1/100mm

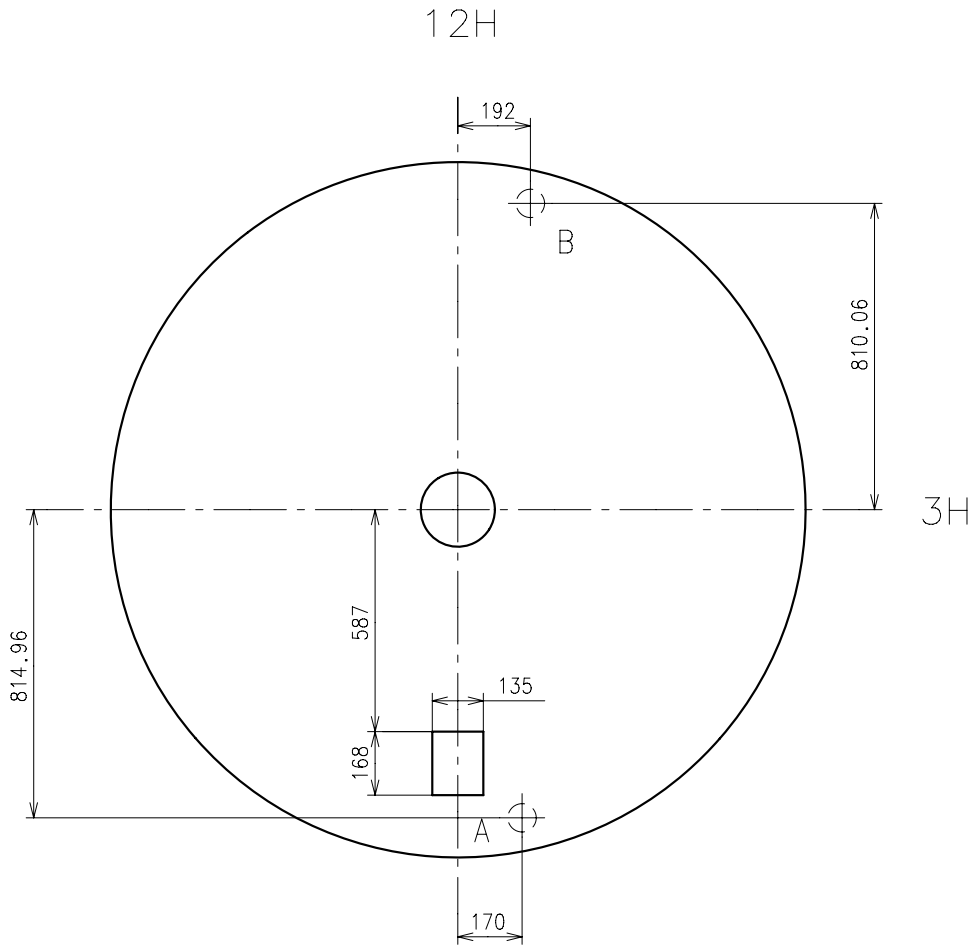
Cal. VX82E	Dial-01	Date:28/Feb./'14
		Rev.:01

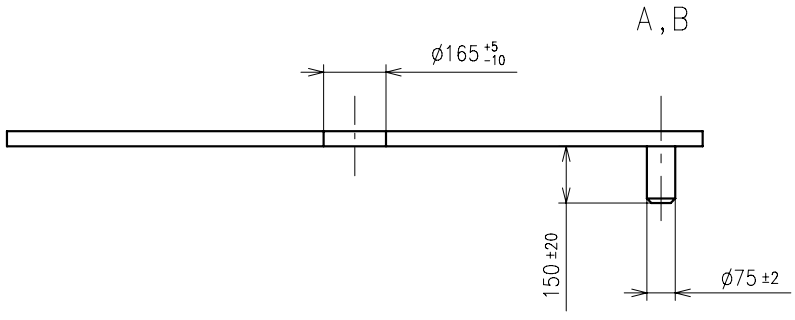




Unit : 1=1/100mm

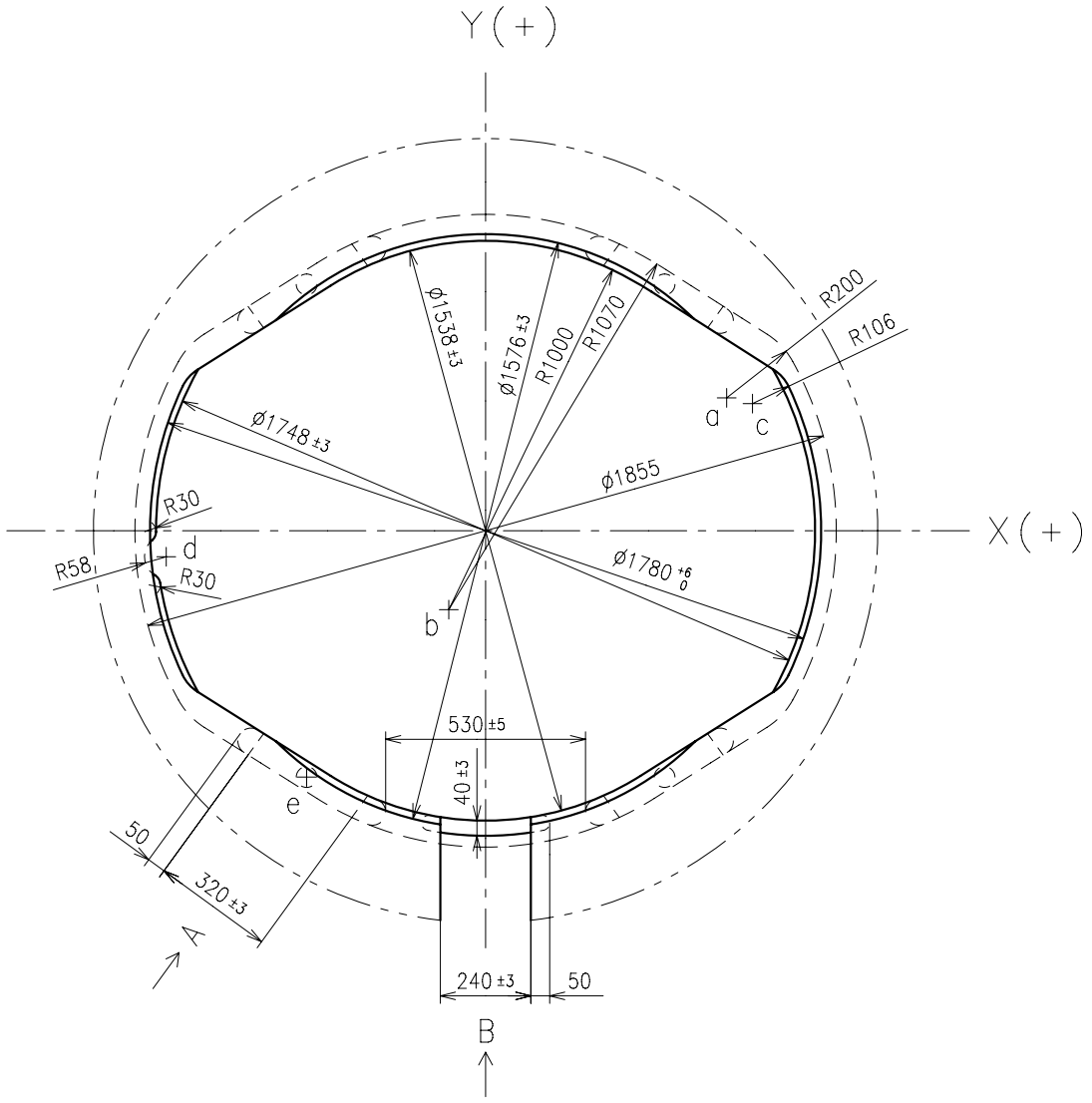
Cal. VX82E	Dial-02	Date:28/Feb./'14
		Rev.:01

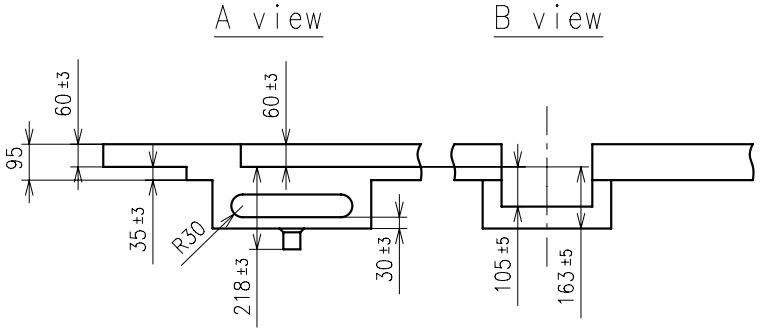




Unit : 1=1/100mm

Cal. VX82E	Casing ring	Date:28/Feb./'14
		Rev.:01





	X	Y
a	+639.35	+352.33
b	- 97.66	-209.34
c	+707.84	+337.08
d	-847.00	- 69.00
e	-474.61	-653.25

Unit : 1=1/100mm