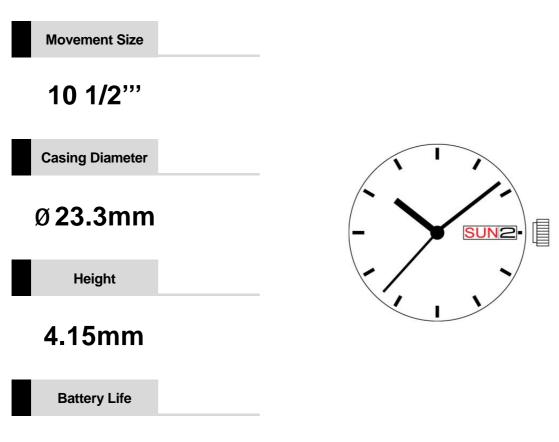


Watch Movement Specification and Drawing

## CALENDAR

## <u>Cal. AL33A</u>

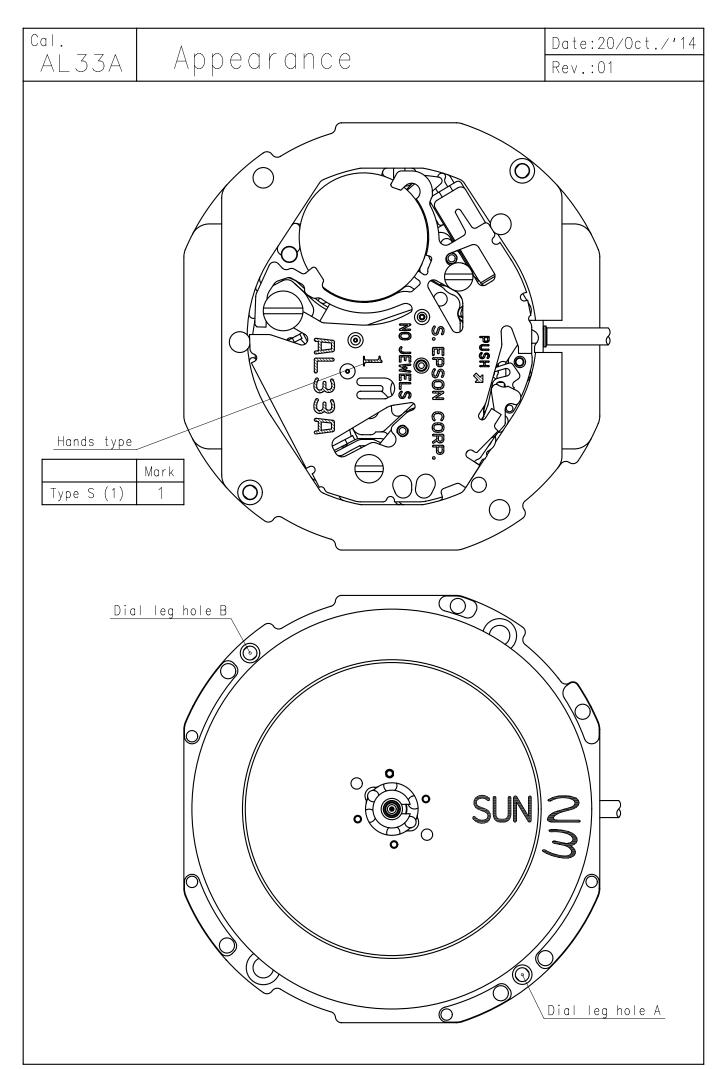


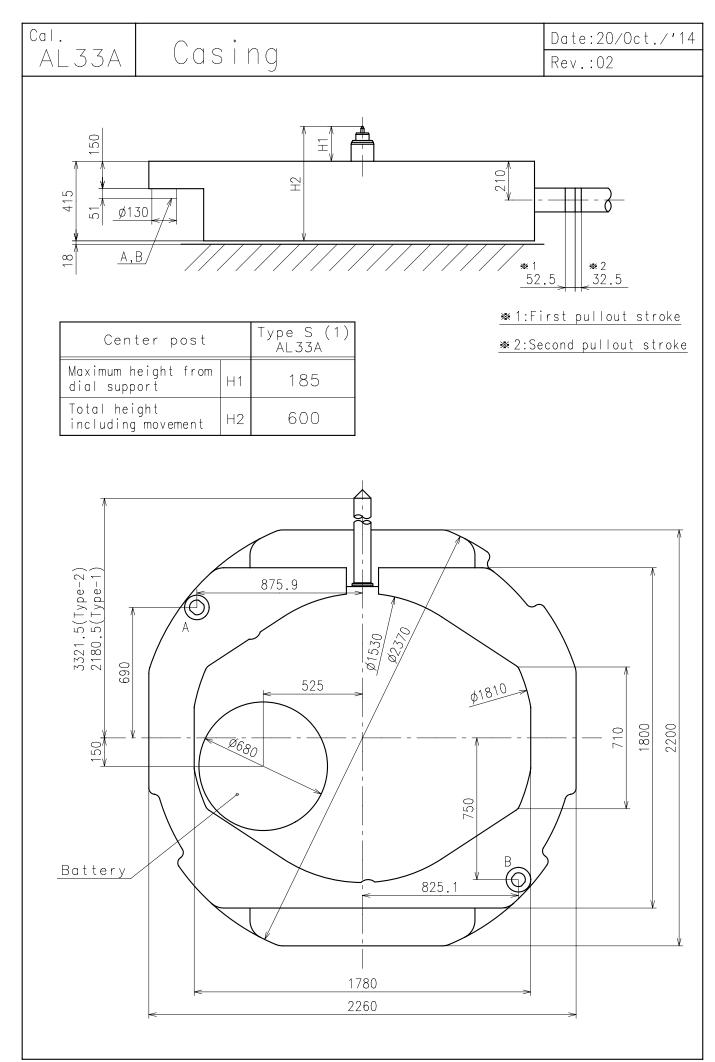
2 years

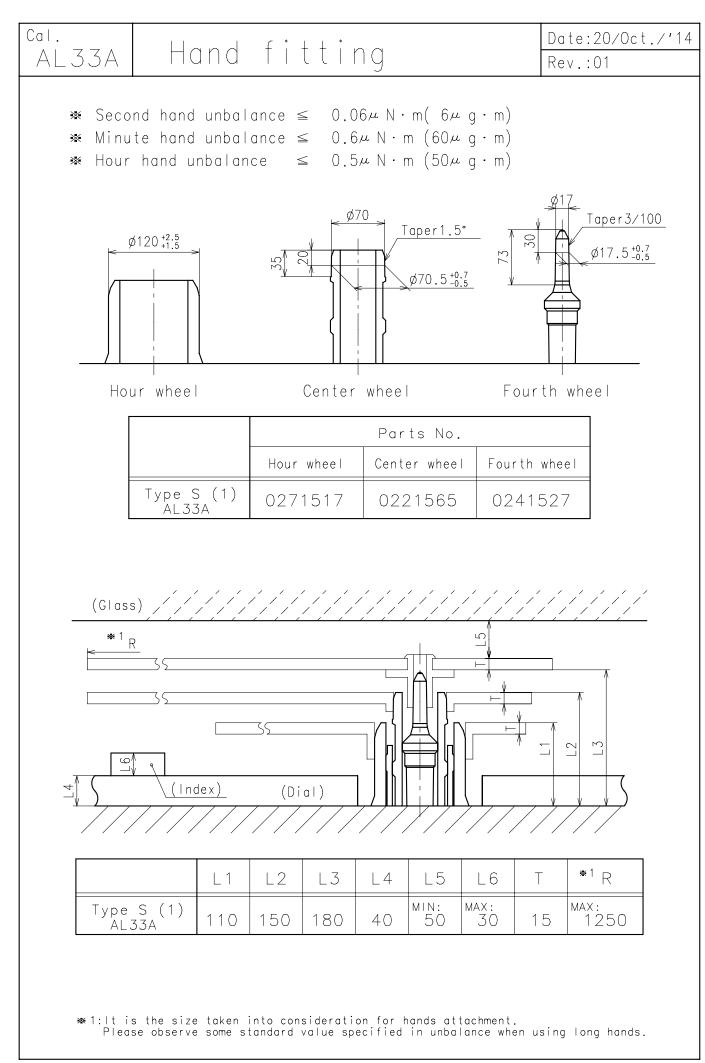
## Cal. AL33A

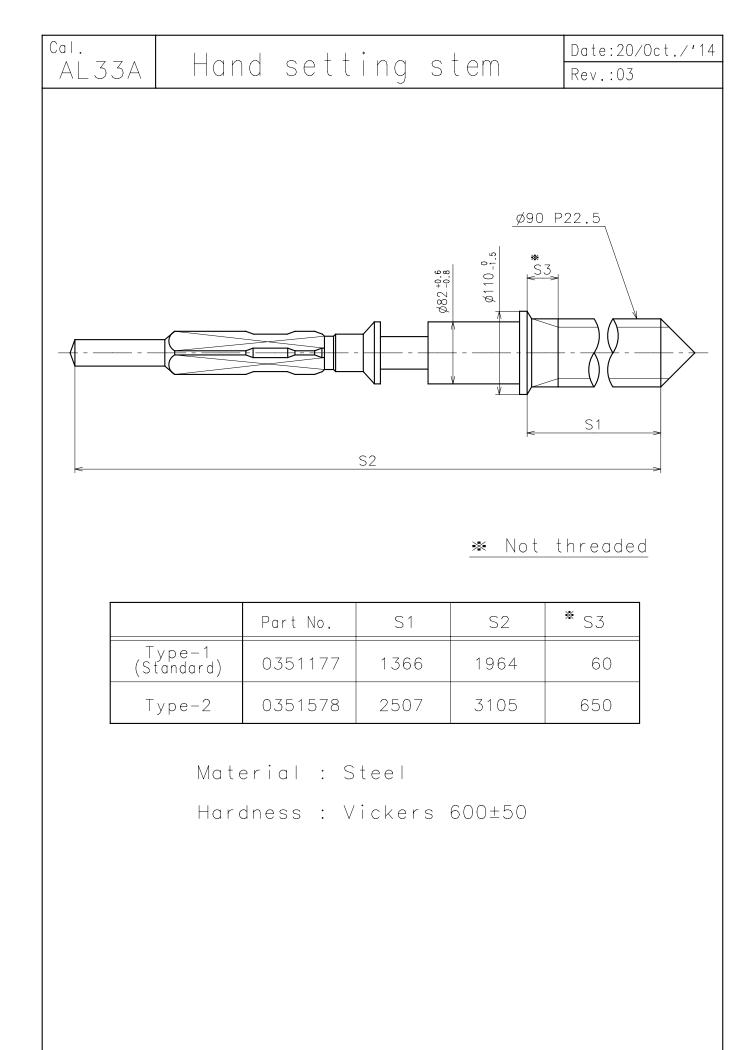
Items	Rev.	Page
Specifications	03	1
Appearance	01	2
Casing	02	3
Hand fitting	01	4
Hand setting stem	03	5
Dial-01	01	6-01
Dial-02	01	6-02
Dial-03	01	6-03
Dial-04	01	6-04
Dial-05	01	6-05
Dial-06	01	6-06
Dial-08	01	6-08
Dial-09	01	6-09
Dial-10	01	6-10
Dial-11	01	6-11
Dial-12	01	6-12
Dial-13	01	6-13
Dial-14	01	6-14
Dial-15	01	6-15
Dial-16	01	6-16
Dial-17	01	6-17
Dial-18	01	6-18
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Casing ring	03	7

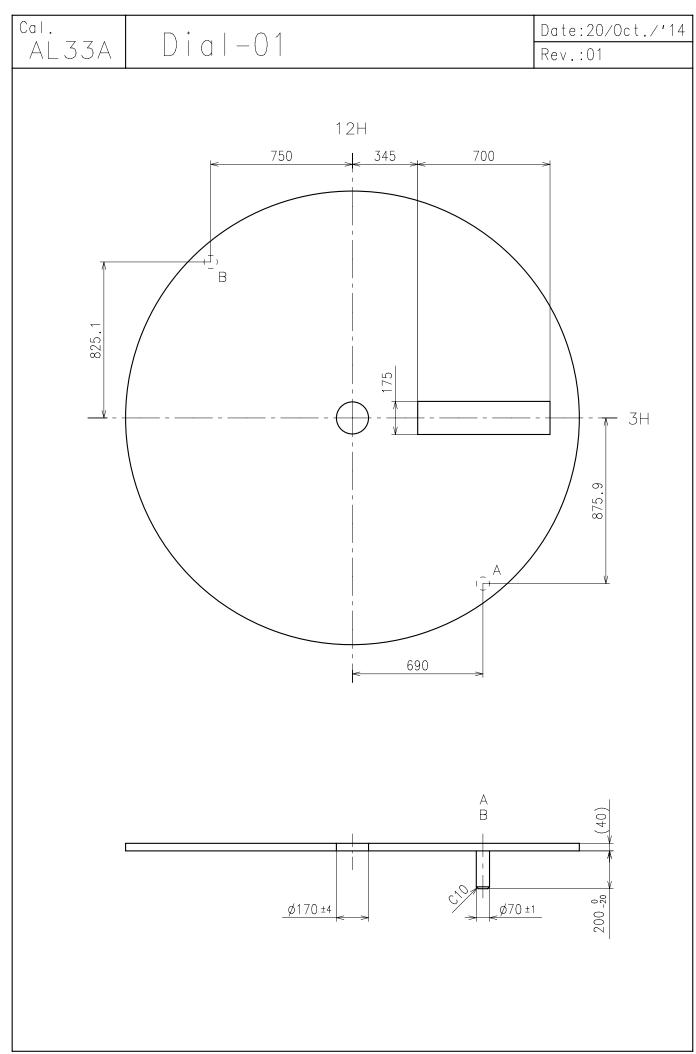
AL33A	Speci	fications	Date : 20/Oct./'14 Rev. : 03	
Analog Quartz <sup>2</sup>	I0 1/2''' Calenda	ar Series Movement / Three	Hands(H/M/S) with Day / Da	
1. MOVEMENT D				
Outside diamete		$\phi$ 23.70mm × 22.00mm(3-9 $\phi$ 23.00mm	$H) \times 22.60 \text{mm}(12-6 \text{H})$	
Casing diameter Total height		4.15mm (including battery)		
2. TIME STANDA	RD			
Type of quartz o	scillator	Tuning fork		
Frequency of qu	artz oscillator	32,768 Hz		
Accuracy		$\pm 20$ seconds per month (on wrist)		
Operating tempe	-	$-5^{\circ}$ C to $+50^{\circ}$ C		
Regulation devic	e	Nil (Pre-adjusted)		
3. INDICATOR / F	UNCTIONS			
3 Hands		Hour / Minute / Second		
Day / Date		Instant setting device for day	/ date calendar	
Reset switch Setting mechani	sm	Crown at normal position	: Free	
	5111	Crown pulled out 1st click		
		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		Second hand	: 0.06 µ N•m	
		Minute hand	: 0.6 µ N•m	
		Hour hand	: 0.5 <i>μ</i> N•m	
5. BATTERY				
Type / Size		Silver oxide battery / $\phi$ 6.8mm × t 2.6mm		
Recommended	pattery	SR626SW		
Nominal voltage		1.55 V		
Battery life		Approx. 2 years		
Driving current c Operation stoppi	•	Approx. 1.5 μ A 1.1 V		
6. SEPARATED F	PARTS (Parts c	ode)		
Hand setting ste	•	0351177 or 0351578		
Battery		SR626SW		
7. TEST OF ACC	URACY			
Equipment to be	used	SEIKO quartz tester QT-99,		
		Greiner quartz timer-C, Wits	chi Q-tester 4000	
Duration of meas		10 seconds	•	
Microphone to b	e used	Electromagnetic detection typ	e	
	All specifi	cations are subject to change with	nout notice.	

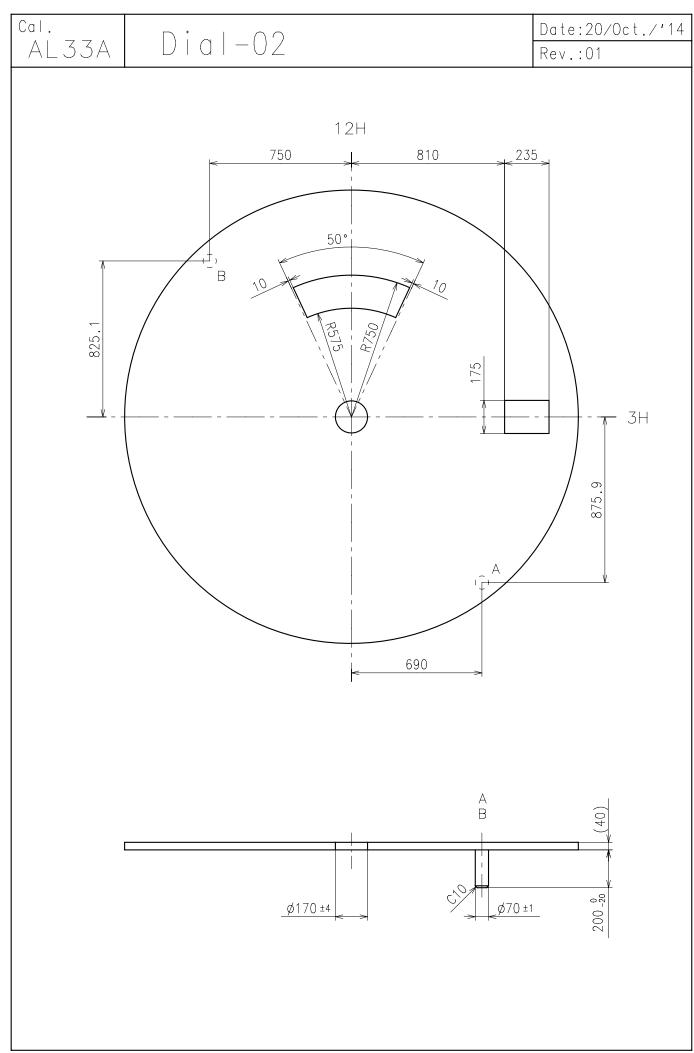


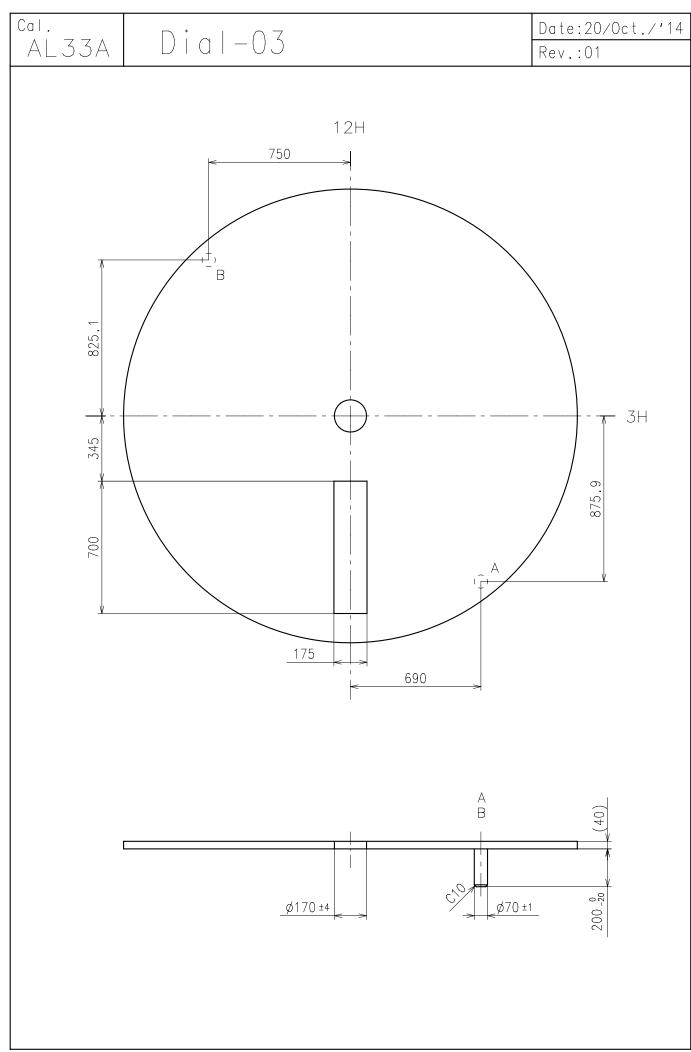


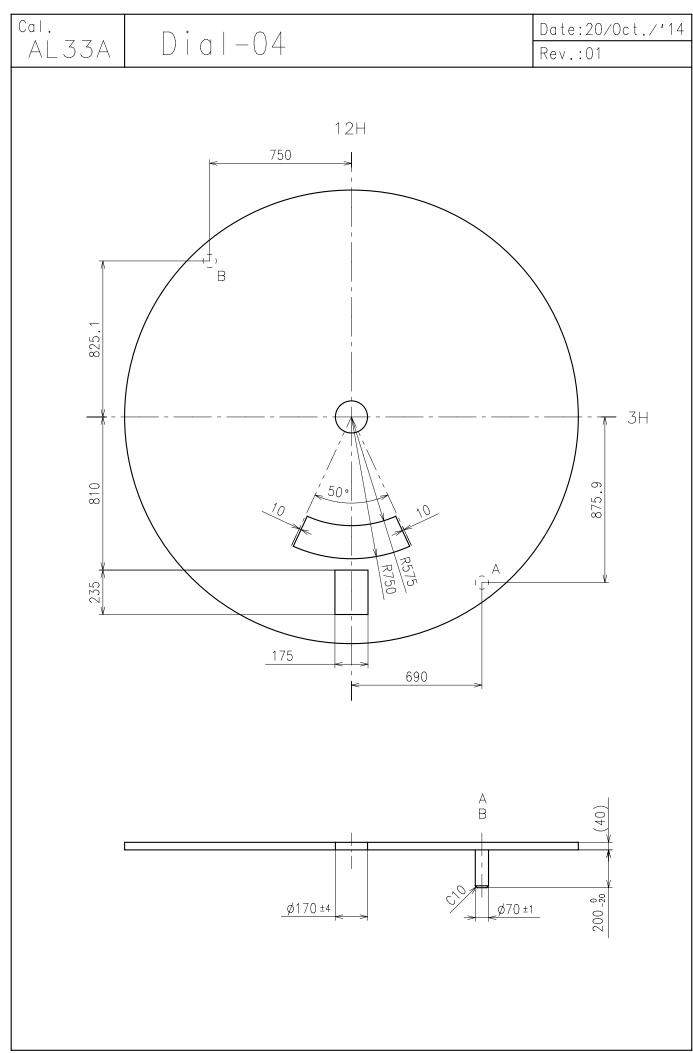


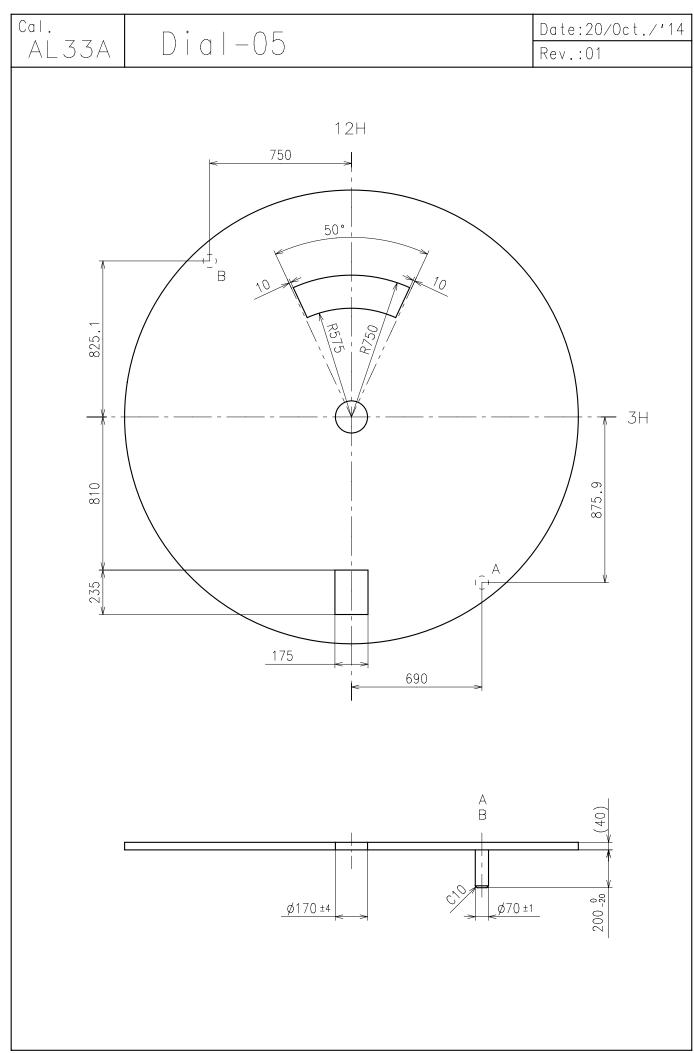


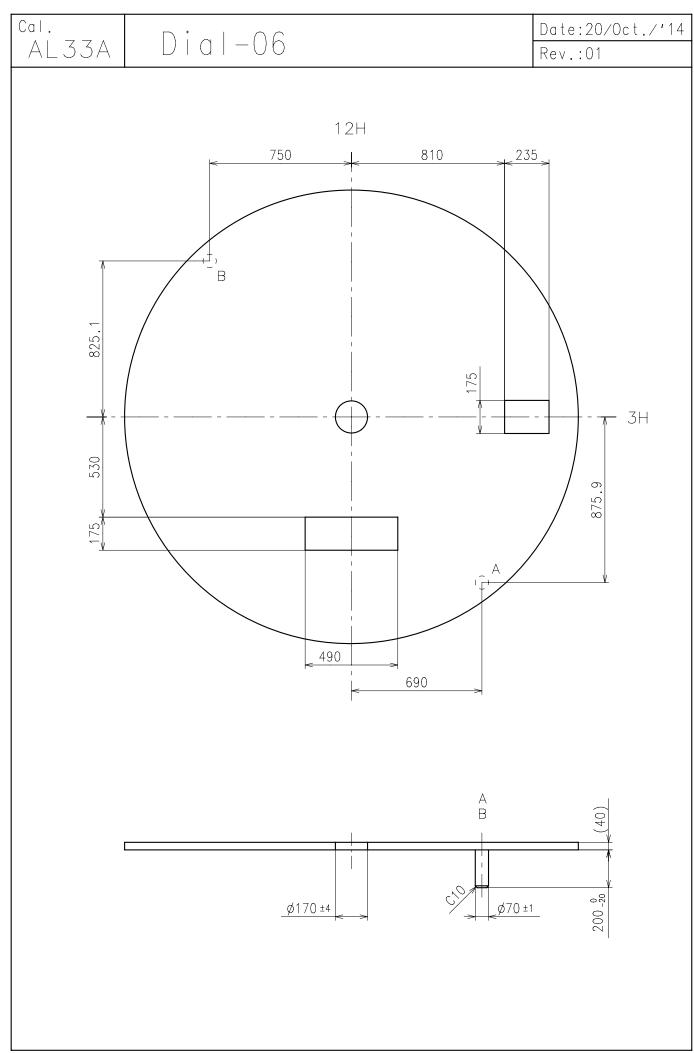


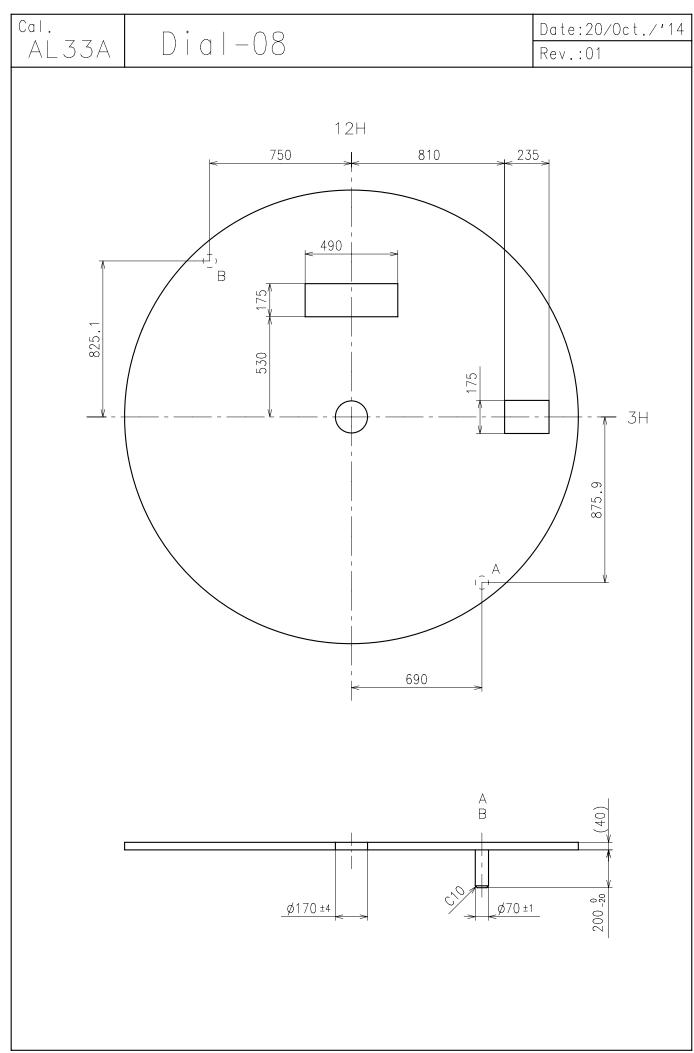


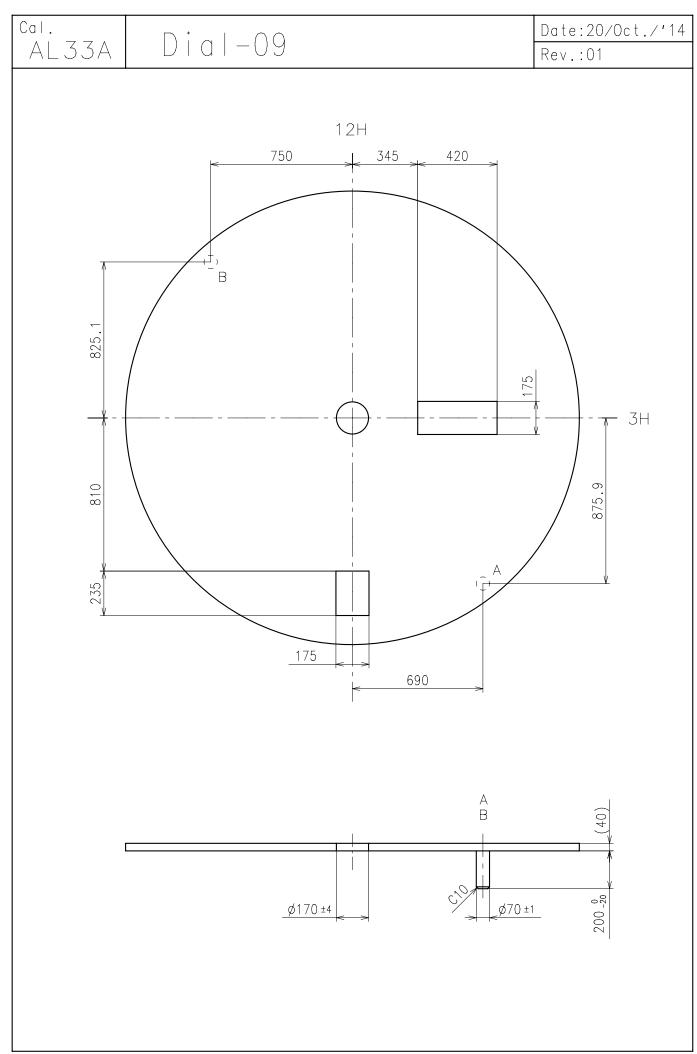




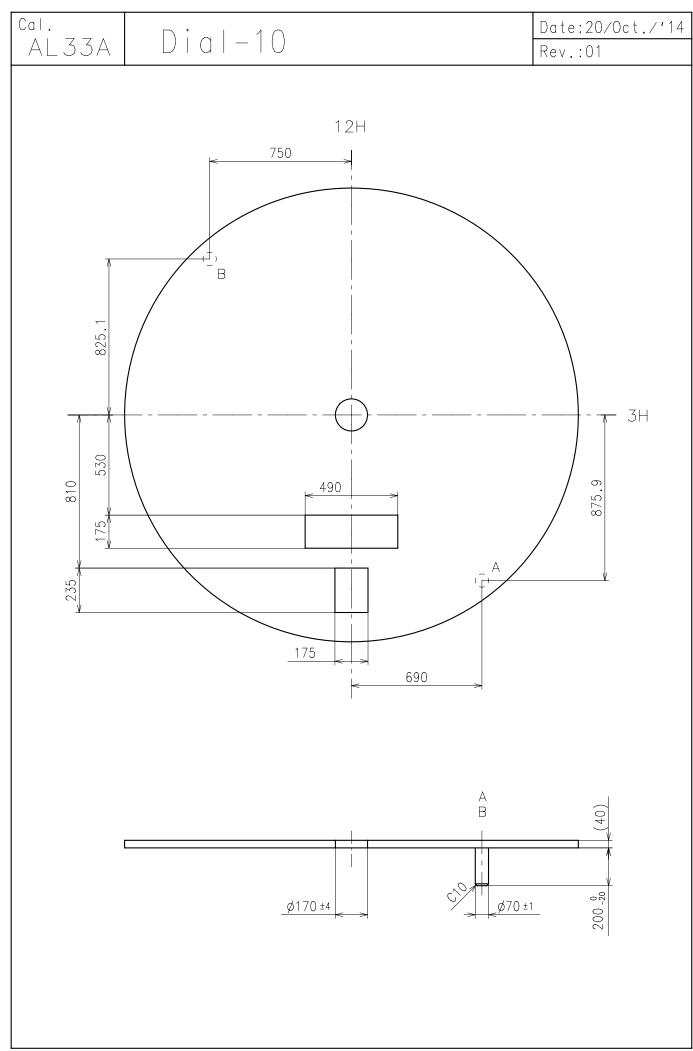


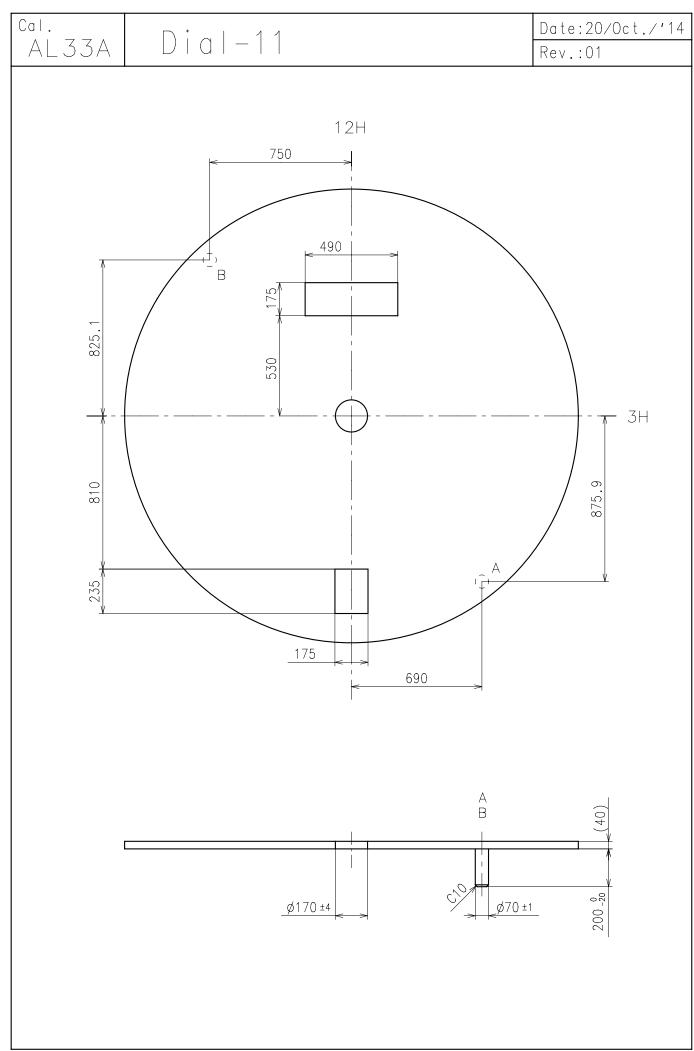




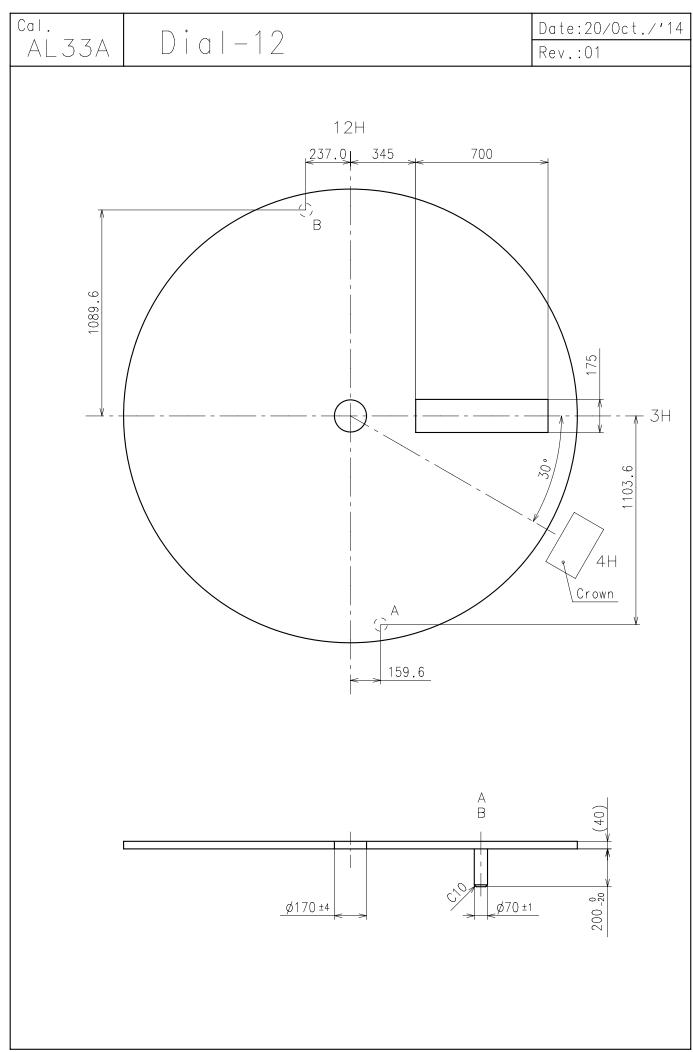


Unit : 1=1/100mm

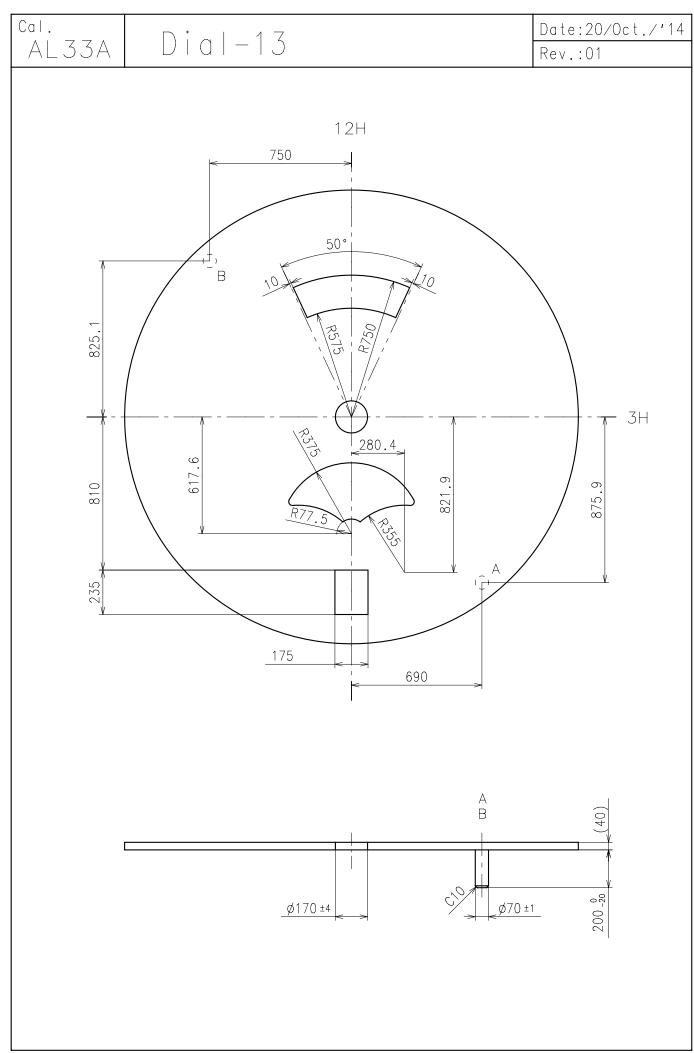


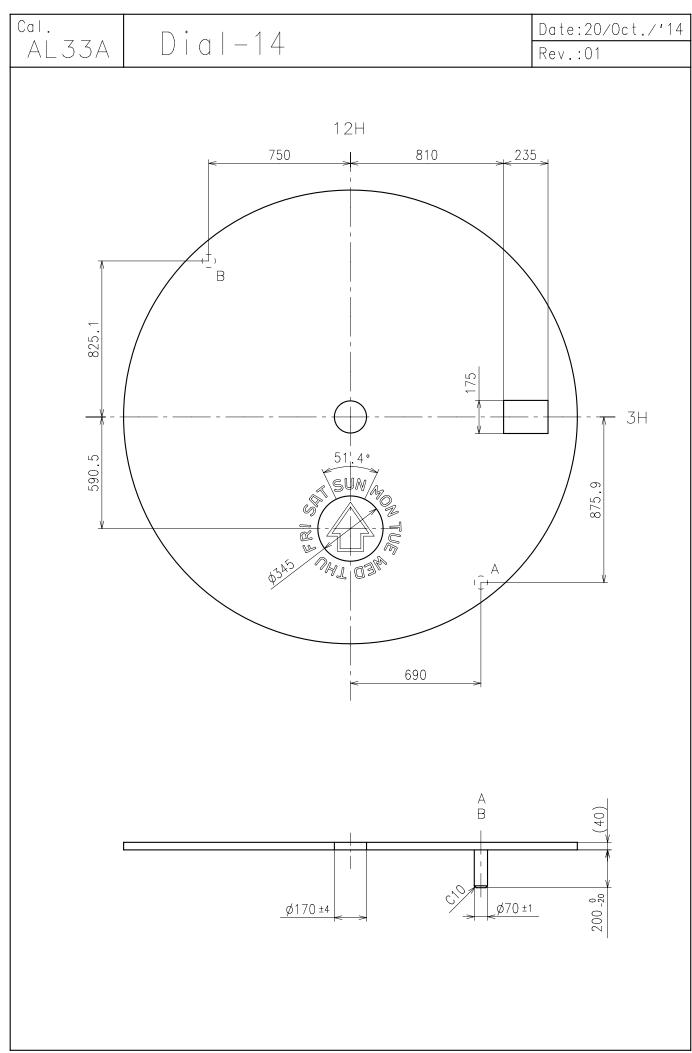


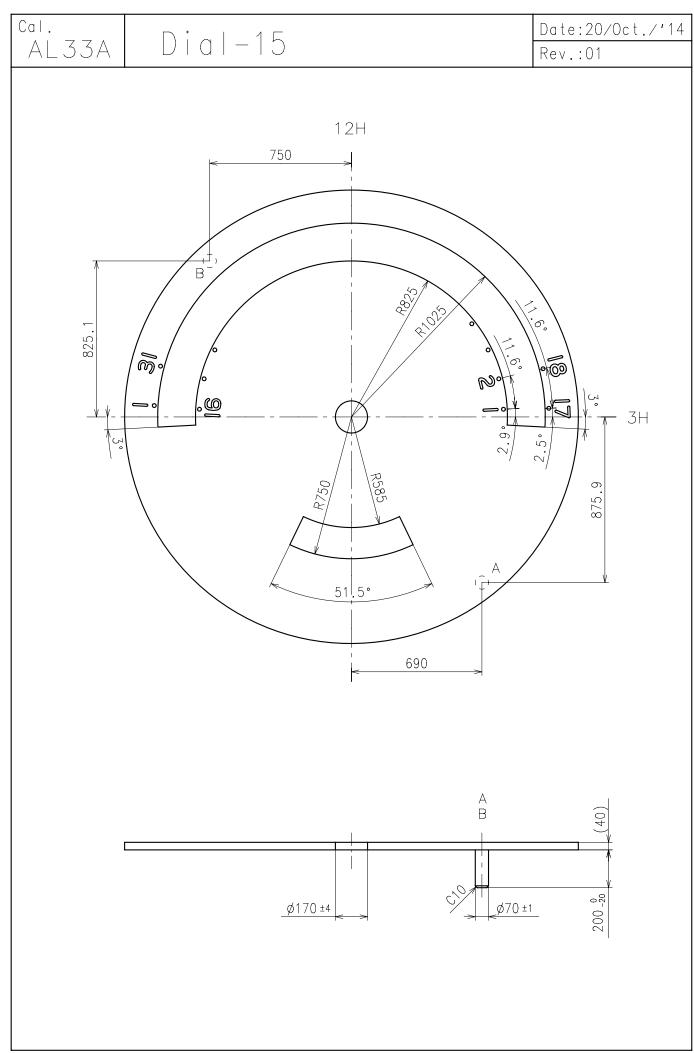
Unit : 1=1/100mm

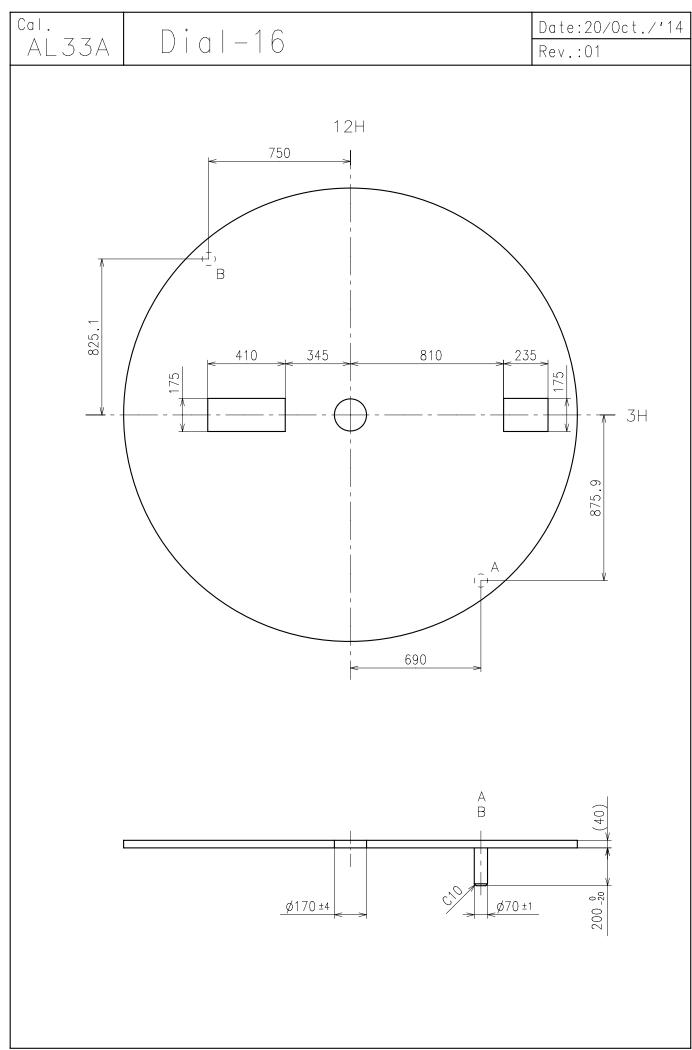


Unit : 1=1/100mm









Unit : 1=1/100mm

