

**GUIDE TO**

**GOAL<sup>®</sup>**

SINCE 1914

**LOCKS**

Catalogue No.

**GC-11**

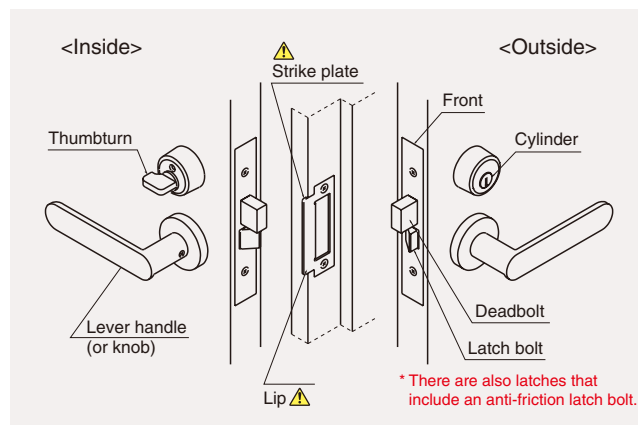




# Precautions for Use and Handling of Locks

Please observe the following points so that the locks can be used correctly for a long period of time.

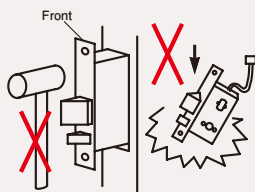
- 1 Be sure to check that the deadbolt is fully extended when locked.
- 2 Dust or dirt in the notches on the key ridge may adversely affect movement of the lock. If the key is dirty, be sure to use a toothbrush or other means to remove the dust or dirt.
- 3 Do not insert any foreign object into the cylinder keyhole.
- 4 If the screws which fasten the lock, strike plate, handle, knob, or other part become loose, retighten them.
- 5 Do not attempt to disassemble or modify the lock.
- 6 Locks without waterproof specifications must be installed in a location not exposed to direct contact with rainwater or other water droplets.
- 7 If the lock no longer moves smoothly due to warpage or sagging of the door as it ages, the door itself must be repaired by a door specialist. If this occurs, immediately notify the building superintendent, contractor, or the door manufacturer.
- 8 If a protective sheet is applied to the lock front or strike plate, be sure to remove it.
- 9 The use of a copied key that is not a manufacturer genuine key may adversely affect movement of the cylinder. Use a genuine GOAL key whenever possible.
- 10 Do not open or close the door with the deadbolt extended.
- 11 Do not label the key in any way that indicates where the key is used.
- 12 Be careful not to scratch the lock and in particular the surface of the handle.



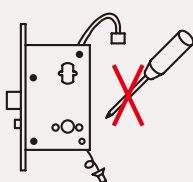
**⚠ Precautions:** A range of strike plate lip sizes are available. Choose the optimal size so that the strike plate does not protrude excessively from the frame.

With an electric lock, pay particular attention to the following points.

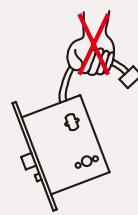
- 1 Do not drop an electric lock, strike it with a hammer, or otherwise subject it to impact. In particular, never strike the front part.



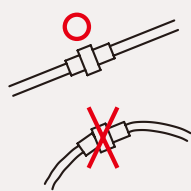
- 2 Do not attempt to disassemble an electric lock.



- 3 Do not suspend the lock by holding the lead wire, and do not bend or damage the lead wire.



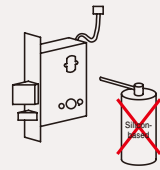
- 4 Connect the connector securely. An incomplete connection may result in operating failure.



- 5 Avoid storing the lock in a location that is exposed to high humidity, high temperature, or contact with rainwater. A product that does not have waterproof specifications must be used indoors in a location not exposed to direct sunlight or wind and rain. Also be careful that water does not contact the electric lock when cleaning it.



- 6 Do not use silicon-based lubricants. These may adversely affect the internal switches or other parts and result in malfunction.





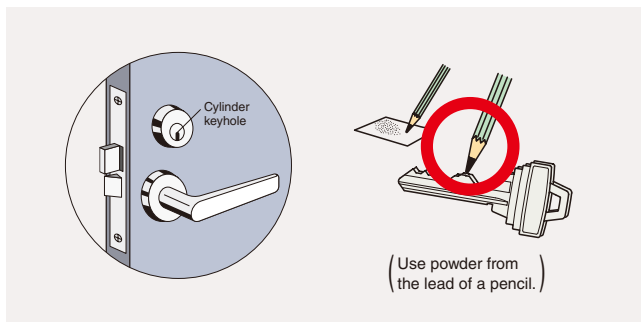


# Maintenance of Locks

Please perform the following maintenance so that the locks can always be used correctly and beautifully.

## ① If there is resistance when inserting and removing the key or when turning the lock

If there is resistance when inserting and removing the key or when turning the lock, insert pencil (soft lead) powder (graphite powder) into the keyhole.



### Caution

Never inject machine oil, anti-rust agent, lubricant, or similar substance into the cylinder keyhole. Doing so may result in operating failure.



Machine oil or similar substance



Anti-rust agent or lubricant

## ② Periodically wipe the lock handle and other parts with a dry cloth.

Periodically (once every 1~2 months) wipe the handle and other parts on the surface of the lock with a soft, dry cloth. If dirt, dust, or other substance is left on the lock, it can cause discoloration and corrosion. Locations in coastal areas and close to heavily trafficked roads are particularly susceptible to contamination by salt and exhaust gases. Take particular care with maintenance in such locations. When performing maintenance, do not clean using paint thinner or other organic solvent, acid, alkali, chlorine, or other chemical. Also do not allow water to directly contact the lock.

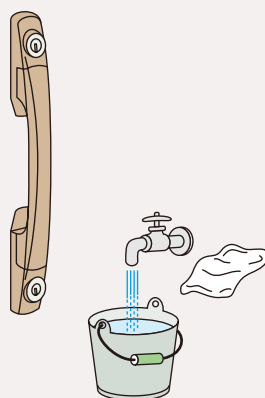
### 1. Dry wiping

- Wipe periodically with a soft, dry cloth.



### 2. Wet wiping

- If dry wiping does not remove the dirt, wipe with a damp cloth.

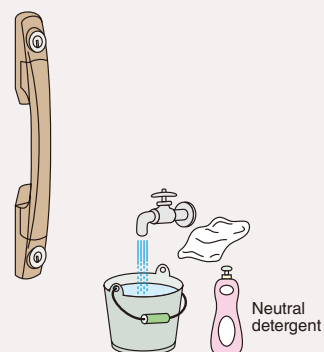


#### Dry wiping

\* After wiping with a damp cloth, be sure to wipe again with a dry cloth.

### 3. Using a neutral detergent

- If wiping with a damp cloth does not remove the dirt, use a neutral detergent.



#### Wet wiping

#### Dry wiping

\* After using a neutral detergent, be sure to wipe with a damp cloth and finally with a dry cloth.

(Caution) Do not scrub the lock or handle with a hard brush. Also never use paint thinner or other organic solvent to remove dirt.

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Cylindrical  
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Cremon  
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Glass door  
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Emergency  
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Cup handle  
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#### Electric locks Security systems

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## 1. Push-pull locks, passage latches P.17~24

P.17~24



PXK-GON, GOP  
(P.21)



PXK-GOQ  
(P.21)



PX, PXK-GSA  
(P.21)



PXK-GOE  
(P.21)



PZK, PZ  
(P.22)



PL, PLK  
(P.22)



PVKU  
(P.23)



PXY  
(P.23)



PY-GOM, GOU  
(P.24)



PYS  
(P.24)

## 2. Lever handle locks, partition locks, passage latches P.25~35

P.25~35



AHL, AHLP (Anti-panic type)  
AHL-9 (Hotel lock)  
(P.30, 31)



LGK  
(P.32)



(LGUL is the UL certified product.)  
LGF, LG, LGT, LX  
(P.32~34)



LH, HL, HLT, HLP  
(P.34, 35)



AH, AHP (Anti-panic type)  
AH-9 (Hotel lock)  
(P.37)



AXF  
(P.38)



AS  
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HS, HST, HSP  
(P.39)

## 4. Integral locks, cylindrical locks P.40~43

P.40~43



UC  
(P.40)



G  
(P.41)



UH, US  
(P.42, 43)



ULW  
(P.43)



MH  
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MDU  
(P.44)



LDK  
(P.45)



HD  
(P.45)

## 6. Dead locks, cremon locks, sliding hung door locks, cam locks P.46~50

P.46~50



1502, 1503  
(P.46)



CGT  
(P.47)



LXD, AHD  
(P.47)



AD  
(P.48)



HN  
(P.48)



CMM  
(P.49)



TSA  
(P.50)



KM, KMC  
(P.50)

(KMC includes a cover.)

## 7. Glass door locks P.51, 52

P.51, 52



2510, HDT  
(P.51)



CG  
(P.52)



BGU  
(P.52)



LGH (A, B)  
ASH (A, B)  
(P.53)



SXH (A, B)  
(P.53)



AHLH, others  
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HDH, AHDH  
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LDHPA  
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KT-2U  
(P.55)

## 9. Cup handle locks P.56, 57

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AHC, ASC  
(P.56)



HSC, HSTC  
(P.56)



UCC  
(P.57)



GC  
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## 10. Sliding door locks P.58, 59

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SX, PSS  
(P.58)



SAK  
(P.59)



SN  
(P.59)



# <Electric locks and security systems: Devices>

(Examples of use: Buildings, hotels, residences, etc. P.60~73)

## 1. Numeric keypad systems P.60



**BTKLX**  
(P.60)

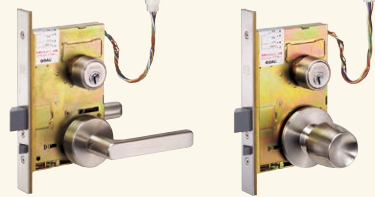
## 2. Key switches P.61



**KS-3**

(Example of installation on collective entrance unit)

## 3. Interlock door systems, emergency door systems P.61



**EU series**  
(P.67)

## 4. Hotel card locks P.62~66



**JCLM (NW, NS)**  
(P.63)



**JCLM2**  
(P.63)

## 5. Electric locks (various types) P.67~71



**EU series**  
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**ELSF, ELM**  
(P.69)



**ESSF, ESM**  
(P.69)



**EMV series**  
(P.70)



**SXEV series**  
(P.71)

## 6. Electrical conductors, control boxes, operation panels P.72, 73



**RCL-21, 27**  
(P.72)



**RCB**  
(P.73)













**RSP**  
(P.73)

\* Be sure to inquire before ordering.

# <Cylinders and thumbturns>

## List of GOAL lock cylinders

Cylinder name [symbol]		Dimple key reversible pin cylinders			Pin cylinders	
		GP cylinder [GP]	V18 cylinder [V]	GV cylinder [GV]	6-pin cylinders [P] (Note 1)	7-pin cylinders [Z] (Note 1)
Cylinder front		 (See P.9 for details.)	 (See P.10 for details.)	 (See P.10 for details.)	 (See P.9 for details.)	 (See P.9 for details.)
Key shape						
Theoretical number of keys		12 billion	12 billion	1,000 trillion and 280 billion	1 million	18 million
(Options)  Available key systems (See P.11~15.)	Master key system	○	○	○	○ (Note 1)	○ (Note 1)
	Grand master key system	○	○	○	○	○
	Great grand master key system	○	○	○	○	○
	Reverse master key system	○	○	○	○	○
	Keyed alike system	○	○	○	○	○
	Construction key system	○	○	○	○	○
	Double construction key system	×	○	○	×	×
	Key change system	△ (Master key only) (Note 2)	○	○	×	×
Universal Key System		×	×	○	×	×

Note 1: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

Note 2: The number of possible changes for a GP cylinder master key change system is 1. (Key changes for change keys are not possible.)

## List of GOAL lock security thumbturns

### TM thumbturn



- This simple type features normal operation that is the same as a conventional thumbturn. A special mechanism prevents it from turning when an eccentric force is applied to prevent illegal unlocking.

### TME security thumbturn



- In normal mode, operates easily in the same way as a TM thumbturn while preventing illegal unlocking.
- Can be changed to free-turning mode by operating a switch. In free-turning mode, nearly all illegal methods of unlocking are impossible.

### TMB security thumbturn



- This thumbturn is an always free-turning type, preventing nearly all illegal methods of unlocking.
- To operate the lock, press in the clutch switch before operating.

### TMK security thumbturn



- This simple type features operation that is the same as an ordinary thumbturn when in normal mode.
- It can be changed to free-turning mode by using a special key. In free-turning mode, nearly all illegal methods of unlocking are impossible.

\* A variety of other types such as cover types (TMC security thumbturns) are also available. Please contact GOAL for more information.

\* Be aware that use with some models may not be possible.

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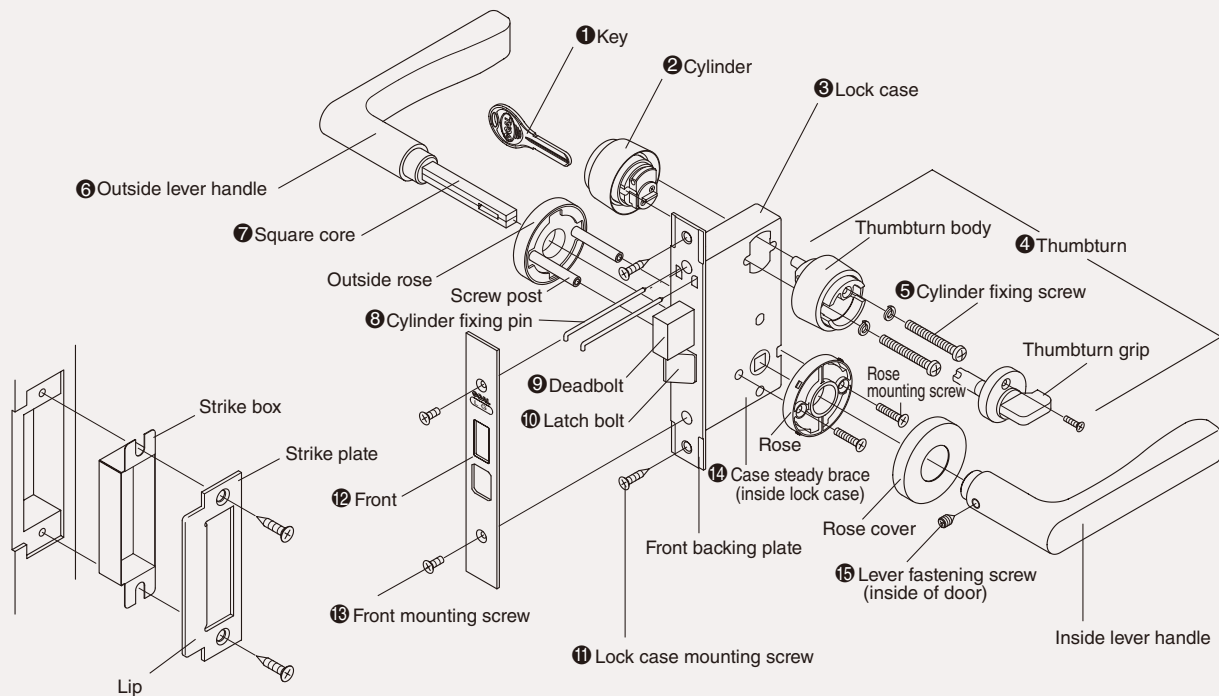
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# Names and Functions of Lock Parts

(This figure shows V-LG-5NU (B/S 51) with lever handle lock LG Model 5, V18 cylinder, NU lever handle, and backset of 51 mm.)



Name	Function
① Key	Operates the cylinder from the outside of the door to extend and retract the deadbolt ⑨, locking and unlocking the lock.
② Cylinder	Operated by the key in order to lock and unlock the lock. It is fastened firmly to the lock case by a double mechanism consisting of the cylinder fixing pins ⑧ and cylinder fixing screws ⑤.
③ Lock case	Contains the lock mechanisms. It is mounted onto the door by the lock case mounting screws ⑪.
④ Thumbturn	The grip operated from the inside of the door to extend or retract the deadbolt, locking and unlocking the lock.
⑤ Cylinder fixing screw	Fixes the cylinder ② onto the lock case ③.
⑥ Outside lever handle	Used to retract the latch bolt and open the door.
⑦ Square core	Fastened to the outside lever handle, this part operates the parts inside the lock case to retract the latch.
⑧ Cylinder and thumbturn fixing pin	Fixes the cylinder and thumbturn to the lock case.
⑨ Deadbolt	Operated by the key and thumbturn, and locks the door.
⑩ Latch bolt	Holding the door closed so that it does not open due to wind pressure or other factor.
⑪ Lock case mounting screw	Mounts the lock case onto the door.
⑫ Front	A covering plate which covers the front of the lock case ③.
⑬ Front mounting screw	Screw for fix front ⑫ onto the lock case. When fasten below screw, case steady brace ⑭ will work. In case of LG, please make sure to fasten below screw lastly.
⑭ Case steady brace	Fastens the lock case to the door, ensuring stable operation of the lock.
⑮ Lever fastening screw	Fastens the square core ⑦ to the inside lever handle.



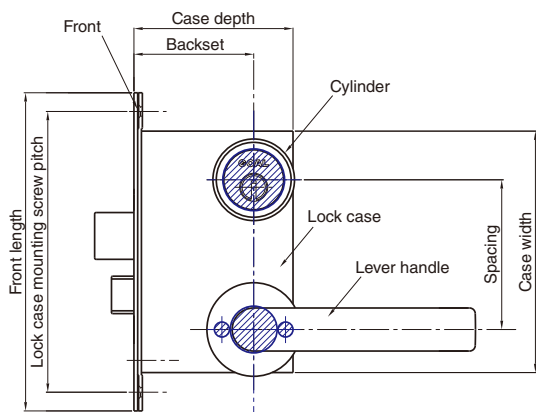


# Lock Specifications

## Backset

(Also indicated as B.S or B/S.)

This is the horizontal distance (mm) from the front surface of the lock case to the center of the cylinder, lever handle, or knob (center of the mounting hole).



Select an appropriate backset according to the door type and conditions.

## Spacing

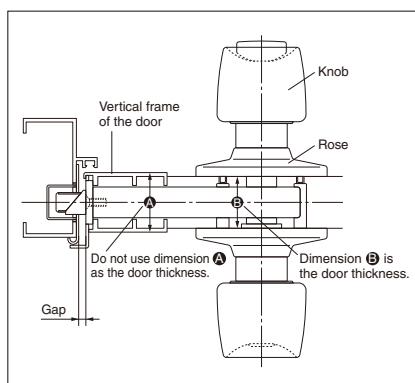
This is the vertical distance (mm) between the center of the cylinder and the center of the knob. When this distance is larger, the key or thumbturn can be operated more easily.

( **GOAL lock spacing** Lever handle locks LX: 75 mm, LG: 80 mm, mortise locks AH: 95 mm, AS: 80 mm )

## Door thickness

This is the door thickness dimension where installation is possible. It is ordinarily indicated in units of millimeters (mm). Examples: 29~33, 33~43, 43~53 mm. This means ## mm or more and less than ## mm. When ordering, it is necessary to clearly indicate the door thickness dimension.

**Note 1:**  
Indicate the thickness at the part where the knob rose, cylinder, thumbturn, and other parts are installed. As shown in the figure at right, when the vertical frame of the door has a different thickness at the door end, be sure to indicate dimension ③ as the door thickness.



## Gap

This is the size of the gap between the door end (front end of the lock) and the edge surface of the frame (end of the strike plate). Ordinarily, a suitable gap is considered to be around 3~6 mm. For an automatic locking device, electric lock, or similar lock, ordinarily a gap of 6 mm or less is prescribed so that the trigger bolt can operate correctly.

## Handing

### 1) Lock handing (R-type, L-type)

Depending on the lock model, there may have handing (R-type, L-type) according to the direction of the door (left-hinged or right-hinged, out-swinging or in-swinging).

### <Locks that have handing (R-type, L-type)>

1. Push-pull locks (Note 2)... PX, P XK, PZ, PZK
2. Hotel locks ..... AHL-9, AH-9
3. Hotel card locks ..... JCLM, JCLM2
4. Anti-panic locks..... AHLP, AHP, HLP, HSP, HLTP, HSTP

### ● Corresponding table

How to determine lock handing as shown below.

Lock handing	Illustration	
<b>R-type</b> (UL type) (Note 2)	<Right-hinged, out-swinging>	Or <Left-hinged, in-swinging>
<b>L-type</b> (UR type) (Note 2)	<Left-hinged, out-swinging>	Or <Right-hinged, in-swinging>

\* This figure shows the conditions when looking down from the ceiling towards the floor.

**Note 2:** Some push-pull locks also available for in-swinging doors. The in-swinging doors are indicated as UR and UL.  
In this case, the lock body, handle, and other parts are special parts for in-swinging doors.

### 2) Lever handle handing

Depending on the shape, there may have handing (R-type, L-type). How to determine lever handle handing as shown below.

Lever handle handing	Corresponding table (Illustration)	
<b>R-type</b> 	<Right-hinged, out-swinging> Lever fastening screw (Note 3)	Or <Left-hinged, in-swinging> Lever fastening screw (Note 3)
<b>L-type</b> 	<Left-hinged, out-swinging> Lever fastening screw (Note 3)	Or <Right-hinged, in-swinging> Lever fastening screw (Note 3)

**Note 3:** For security reasons, the lever handle fastening screw must be on the inside.

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Cylindrical  
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Rim dead  
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Dead locks  
Cremor  
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Glass door  
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Emergency  
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Cup handle  
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# GOAL Lock Function Numbers / Ordering Information

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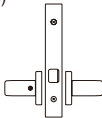
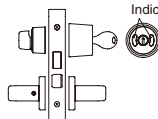
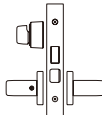
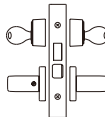

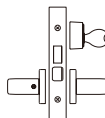
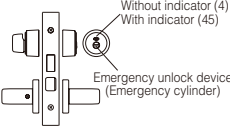
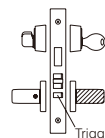
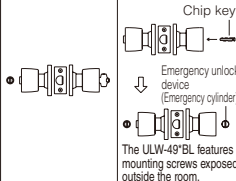
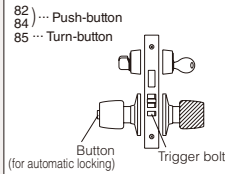
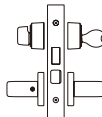
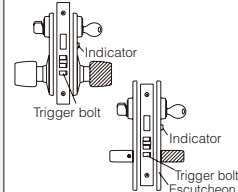
Hotel card  
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Electric  
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## GOAL Lock Function Numbers (\* Functions and operations may differ depending on the model, such as for emergency locks. Refer to the model number table for the specific model for more information.)

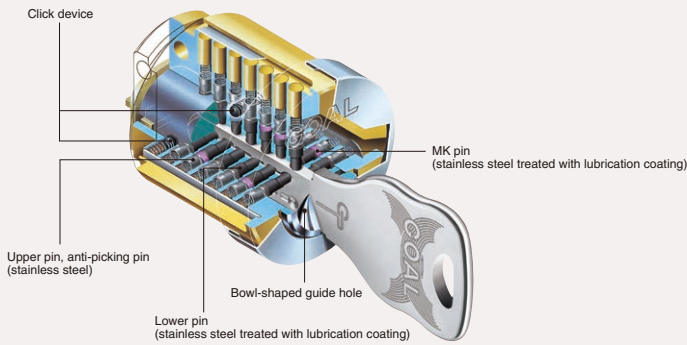
Function Number Classification	Illustration	Operation (Applications)		Function Number Classification	Illustration	Operation (Applications)	
		Models With This Function				Models With This Function	
<b>1</b> <b>Passage latch</b>	(Inside) (Outside) 	Not equipped with a locking function. (For interior partitions that do not need to be locked)  • Lever handle locks, Mortise locks, etc.		<b>5 (ND)</b> <b>Cylinder lock with indicator</b>	(Inside) (Outside) 	Equipped with a locked (red) and unlocked (blue) indicator. Cannot be unlocked without a key. (For toilet stalls in commercial and public facilities)  • Lever handle locks: LGF, LG, LX • Mortise locks: AXF, AS • Dead locks: HD, LXD • Hook bolt sliding door locks: SX	
<b>3</b> <b>Exit lock</b>		Can be locked/unlocked only from inside. Cannot be locked/unlocked from outside. (For terrace doors, etc.)  • Lever handle locks, Mortise locks, etc.		<b>6</b> <b>Double-cylinder lock</b>		Can be locked/unlocked from inside/outside with a key. (For common entrances, connecting doors, etc.)  • Lever handle locks, Mortise locks, etc.	
<b>33</b> <b>Double-thumbturn lock</b>		Can be locked/unlocked from either side. (For interior partitions, meeting rooms, etc.)  • Lever handle locks: LGF, LG, LX • Mortise locks: AXF, AS • Dead locks: HD, LXD • Hook bolt sliding door locks: SX (* Security thumbturn available as a special specification.)		<b>7</b> <b>Outside lock</b>		Cannot be locked/unlocked from inside. Can be locked/unlocked from outside with a key. (For classrooms, hospital rooms, storerooms, etc.)  • Lever handle locks, Mortise locks, etc.	
<b>4</b> (Without indicator) <b>45</b> (With indicator) <b>Partition lock</b> (With emergency cylinder)		Can be locked/unlocked from inside. Emergency cylinder can be unlocked from outside. (Children's rooms, bathrooms, toilet stalls, etc.)  • Lever handle locks: LG, LX • Mortise locks: AXF, AS • Integral locks: UC, G (*45 only) • Dead locks, Sliding door locks: HD, AD, SX, etc.		<b>8</b> <b>Storeroom lock</b>		Outside lever handle/knob is always fixed. Can be opened anytime from inside. Can be freely opened from inside. (For hotels, storerooms, equipment rooms, etc.)  • Lever handle locks: AHL • Mortise locks: AH • Cylindrical locks: UH, US	
(For bathroom) <b>49</b> <b>Bathroom lock</b> (with construction key)		Partition lock with a locking function that can be unlocked with a key during construction. After construction, the lock will be equipped with an emergency unlock function by inserting the chip key to the cylinder. After that, the emergency cylinder can be unlocked by using a coin in emergency situations. (For bathroom)  • Cylindrical locks: ULW		<b>82</b> <b>84</b> <b>85</b> <b>Office lock</b>		Can be locked/unlocked from inside with the thumbturn or from outside with a key. Can also be locked automatically by operating the knob button on the inside. (For office entrances, etc.)  • Mortise locks: AH only	
<b>5</b> <b>Entrance lock</b> (Cylinder lock)		Can be locked/unlocked from inside. Can be locked/unlocked from outside with a key. (Cylindrical lock can be locked using the button.) (For main entrances, etc.)  • Lever handle locks, Mortise locks, etc.		<b>9</b> <b>Hotel lock</b>		Outside lever handle/knob is always fixed. Can be unlocked with a key. Can be opened anytime from inside. Cannot be unlocked with a maid key when double-locked (shut out) from inside. (For hotel guest rooms, etc.)  • Lever handle locks: AHL • Mortise locks: AH • Cylindrical locks: UH	

## Include the following information when ordering or designating a GOAL lock.

	Model		Lever handle / knob design, finish symbol, escutcheon, etc.	Hand	Backset (mm)	Door thickness (mm)	Door type	Door material	Remarks (such as keying system)
	Cylinder symbol(Notes)	Series	Function number						
(Examples) Note: When ordering, include the cylinder symbol with the model. (GP: GP cylinder, V: V18 cylinder, GV: GV cylinder, P: 6-pin cylinder, Z: 7-pin cylinder)									
(Ex. 1)	LX	1	BU 40A (R4U)		51	30	Single-leaf door	Wooden door	
	→ LX lever handle with passage latch		→ BU lever, dull alumite silver BU (R4U) rose						
(Ex. 2)	GV-LG	5	NU11S N5UW		64	36	Single-leaf door	Aluminum sash	With UKS2 (Universal Key System) Common strike plate
	→ LG lever handle lock (GV cylinder)		→ NU lever, dull stainless steel, N5U escutcheon (both sides)						
(Ex. 3)	V-AHP	5	Q11S	R	76	40	Double-leaf door	Steel door	Key change system with master key
	→ AHP mortise lock (Anti-panic lock) (V18 cylinder)		→ Q type knob, dull stainless steel		→ R type (for out-swinging right-hand door or in-swinging left-hand door)				
(Ex. 4)	GP-LG	5	NU11S (R4U)	R	64	40	Single-leaf door	Steel door	ND cylinder, with master key system Construction key system
	→ LG lever handle lock (GP cylinder)		→ NU lever Dull stainless steel (R4U) rose		→ R type (ND cylinder on right side when seen from lock front (door end))		(GP-ND cylinder with indicator)		
(Ex. 5)	GP-EURP	7	CC	L	76	36	Double-leaf door	Steel door	
	→ EURP function-switching electric lock with anti-panic function (GP cylinder)		→ Cup handle on both sides		→ L type (for out-swinging left-hand door or in-swinging right-hand door)				



### ● Illustration of GP cylinder structure



### ● GP cylinder front



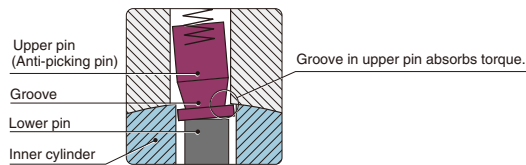
### ● GP cylinder dimple key



**18 high-precision pins enable 12 billion key differences.**  
**This is an original security design that is highly resistant to picking and other methods of illegal unlocking.**

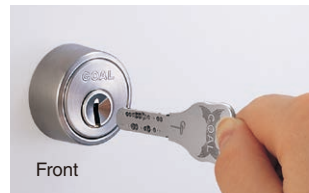
### Features

- 18 high-precision pins are arranged in 3 rows. In addition, all of the upper pins are anti-picking pins, making picking nearly impossible.



- The number of key differences is 12 billion.
- CNK, GGMK, GMK, MK and RMK is available.
- The use of MK pins (master key pins) makes these locks compatible with large-scale and complex key systems.
- All pins are made of stainless steel and treated with a special lubrication coating. This provides an impressive increase in strength and durability.

- The dimple key uses a key form that is easy on the fingers. Insertion and removal are extremely smooth, and the key is reversible so it can be inserted facing either way.



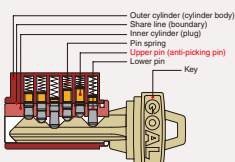
- The bowl-shaped guide hole makes it easy to insert the key.
- Operability is further improved with the use of a click device.
- Durability has been impressively improved.  
An impressive increase in durability was achieved with the dimpled key, special lubrication coating on all lower pins, the special click device, and other improvements.

## 6-pin, 7-pin cylinders [Symbol: P]

## 6-pin cylinders [Symbol: P]

## 7-pin cylinders [Symbol: Z]

### ● Illustration of 6-pin cylinder structure



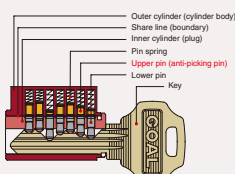
### ● 6-pin cylinder front



### ● 6-pin cylinder key



### ● Illustration of 7-pin cylinder structure



### ● 7-pin cylinder front



### ● 7-pin cylinder key



- These are high-precision 6-pin and 7-pin cylinders. In addition, all of the upper pins are anti-picking pins, making picking and other methods of illegal unlocking extremely difficult.
- The maximum number of key differences with a 6-pin cylinder is 1 million.
- The maximum number of key differences with a 7-pin cylinder is 18 million.
- The use of a click device and a special lubrication coating on all lower pins allow smooth key insertion and removal.

**Note:** Production of new master key systems for 6-pin and 7-pin cylinders discontinued as of March 2017.

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Cylindrical  
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Rim dead  
locks

Dead locks  
Cremon  
locks  
Glass door  
locks

Emergency  
locks  
Cup handle  
locks

Sliding  
door locks

### Electric locks Security systems

Ten-key  
pads

Key switches  
Interlock /  
emergency  
door  
systems

Hotel card  
locks

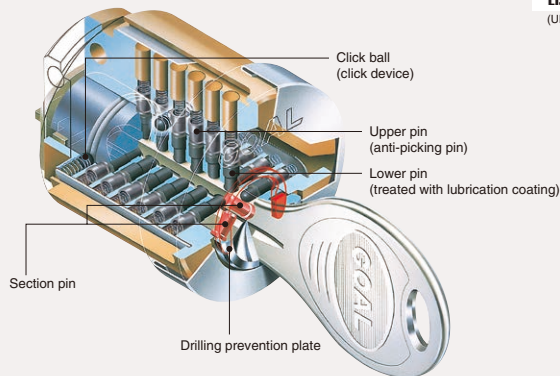
Electric  
locks

Electrical  
conductors,  
Control  
boxes

Dimensions



### ● Illustration of V18 cylinder structure



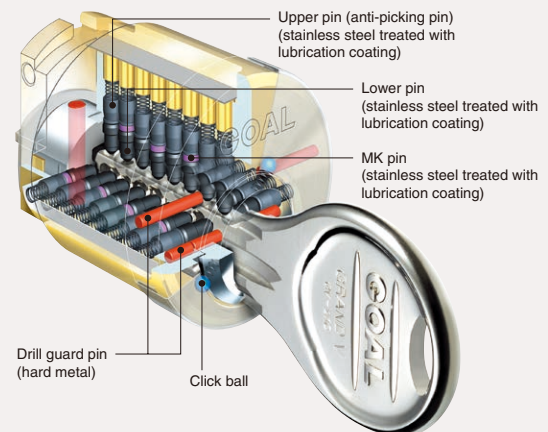
### ● V18 cylinder front



### ● V18 cylinder dimple key



### ● Illustration of GRAND V (GV) cylinder structure



### ● GV cylinder front



### ● GV cylinder dimple key



**18 high-precision pins enable 12 billion key differences.**  
This security design is highly resistant to picking and other methods of illegal unlocking.

### Features

- Products which have been registered under the U.S. UL security standard (UL437) are also available.
- 18 high-precision pins produce 12 billion key differences.
- Various key systems including master key (MK) systems and construction key (CNK) systems are available.
- Picking, impression, and other methods of illegal unlocking are nearly impossible.
- The robust design prevents drilling.
- All pins are made of stainless steel and treated with a special lubrication coating. This produces an impressive increase in strength and durability.
- The key form is easy on the fingers. Insertion and removal are extremely smooth, and the key is reversible so it can be inserted facing either way. A bowl-shaped guide hole is also provided.
- Operability is further improved with the use of a click device.
- As an option, a key change (V, GV-KCH) system is also possible. (See P.14 for details.)

**The immense 1,000 trillion and 280 billion number of key differences results in an ultra-secure design that makes picking and all other methods of illegal unlocking nearly impossible.**

### Features

- The maximum 5 levels and 24 columns of pins produce an incredible 1,000 trillion and 280 billion number of key differences.
- Various key systems including master key (MK) systems and construction key (CNK) systems are available.
- Picking, impression, and other methods of illegal unlocking are nearly impossible.
- The use of MK pins makes these locks compatible with large-scale and complex key systems.
- The robust design prevents drilling.
- Although the locks use dimple keys, the keyway section has a complex shape that makes the insertion of picking or other tools difficult.
- All pins are made of stainless steel and treated with a special lubrication coating.
- The security ID tag system makes it possible to carefully check for key duplication. (Standard specifications)
- The key form is easy on the fingers. Insertion and removal are extremely smooth, and the key is reversible so it can be inserted facing either way. A bowl-shaped guide hole is also provided.
- Operability is further improved with the use of a click device.

<Security ID tag>







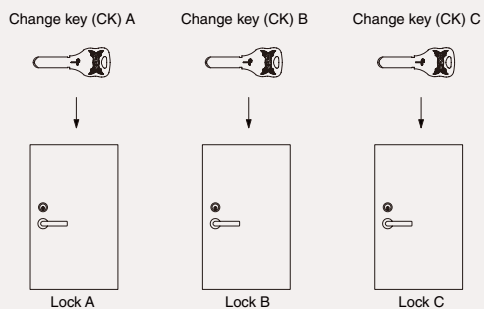
# Key systems

Increasingly complex and advanced key management systems are required in recent years due in part to increasing building heights. In order to satisfy these requirements, a wide range of key systems can be constructed with GOAL pin cylinders, including the following. These can be used in combination to create the optimal key management system according to the key system purpose.

**<Caution>** All keys are important items for protecting the safety and property of the customers. Exercise full caution to avoid losing them. When lost a key, replace the cylinder. Can be used without replacing the cylinders in case key change systems or Universal key systems are equipped. (Refer to P.14~15.)

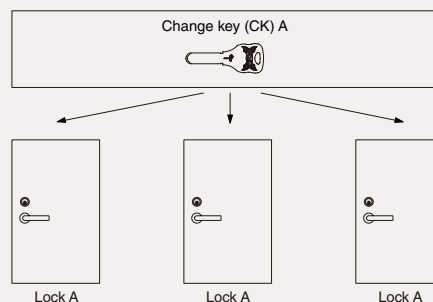
## 1. Change key <CK>

The individual unique keys for each lock are referred to as change keys (CK).



## 2. Keyed alike system <KA>

This system uses the same key number for multiple lock cylinders, and allows a single change key to lock and unlock all locks in that group.



## 3. Master key system <MK>

This system allows a single master key (MK) to lock and unlock multiple locks which are each equipped with their own different keys.

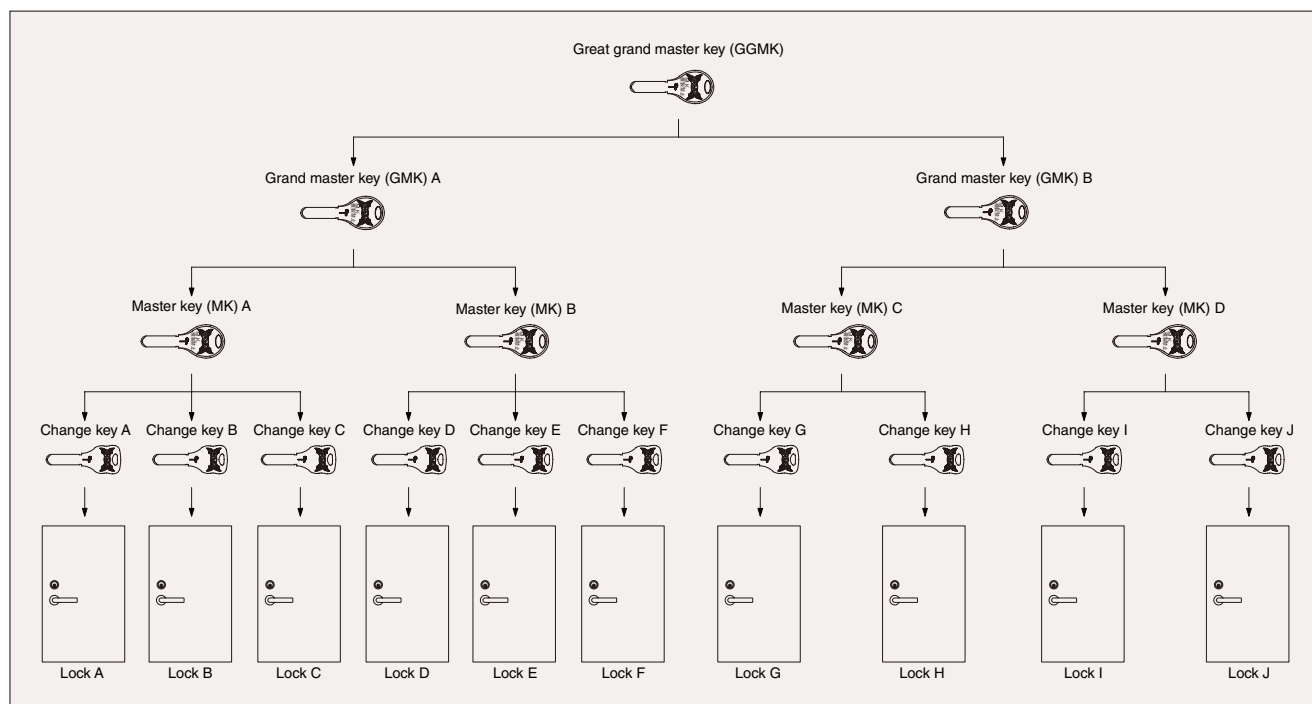
**<Note>** Production of new master key systems for 6-pin and 7-pin cylinders discontinued as of March 2017.

## 4. Grand master key system <GMK>

This system allows a single grand master key (GMK) to lock and unlock all the locks in multiple master key groups which are each equipped with their own unique master keys.

## 5. Great grand master key system <GGMK>

This system allows a single great grand master key (GGMK) to lock and unlock all the locks in multiple grand master key groups which are each equipped with their own unique grand master keys.



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Cylindrical  
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Rim dead  
locks

Dead-locks  
Cremon  
locks  
Glass door  
locks

Emergency  
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Cup handle  
locks

Sliding  
door locks

### Electric locks Security systems

Ten-key  
pads

Key switches  
Interlock /  
emergency  
door  
systems

Hotel card  
locks

Electric  
locks

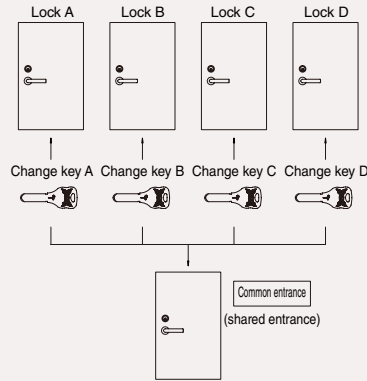
Electrical  
conductors,  
Control  
boxes

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## 6. Reverse master key system <RMK>

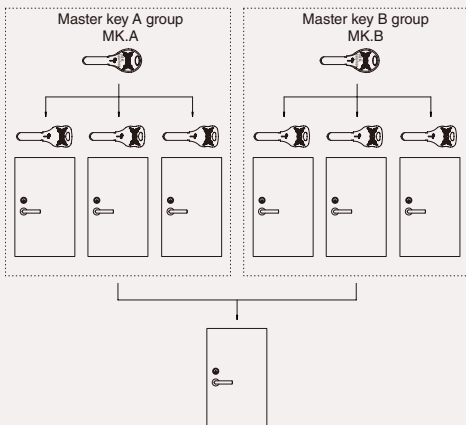
RMK is keying system that permits a lock to be opened with a number of unique, individual keys. For instance, each key (CK A~D) can individually operate its own lock. And cylinder of common entrance can be operated by CK A~D as shown below.



## 7. Cross master key system <CMK>

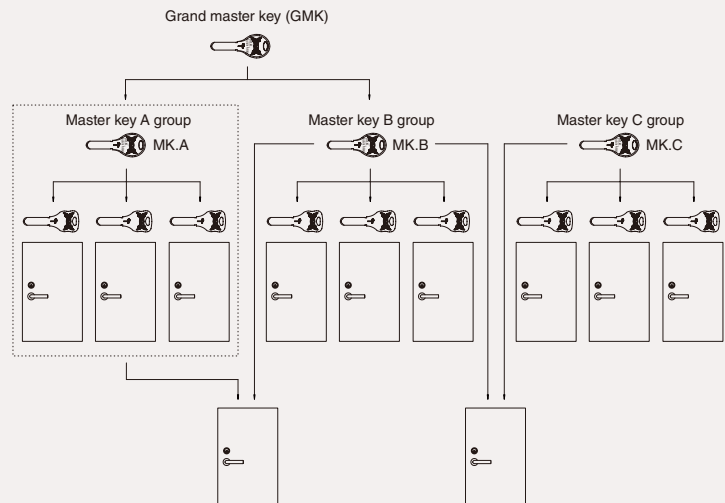
The designated lock can be locked and unlocked using the master keys and change keys belonging to multiple different master groups, this system is referred to as a cross master key system (CMK).

<Example of simple cross master key system>



Both master keys A and B and all change keys can lock and unlock the designated lock.

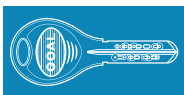
<Example of complex cross master key system>



The grand master key, master key A and the change keys of that group, and master key B can lock and unlock the designated lock.

The grand master key, master key B, and master key C can lock and unlock the designated lock.





# Key systems

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Dead locks  
Cremon  
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Glass door  
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Electric locks  
Security systems

Ten-key  
pads

Key switches  
Interlock /  
emergency  
door  
systems

Hotel card  
locks

Electric  
locks

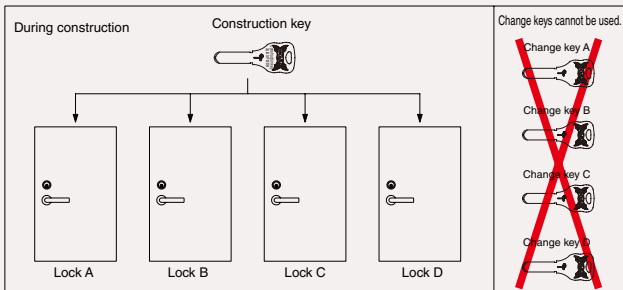
Electrical  
conductors,  
Control  
boxes

Dimensions

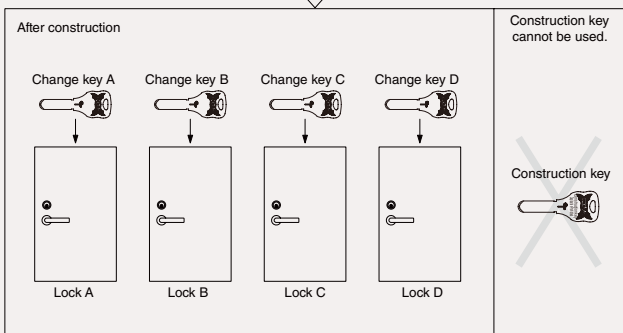
## 8. Construction key system <CNK>

With this system, the keys that were used for management during the building construction period are automatically disabled after construction is completed without changing the locks and cylinders. Thereafter the locks can be locked and unlocked only with the new keys that were delivered to the client or residents. The keys that are used during the construction period are known as construction keys (CNK).

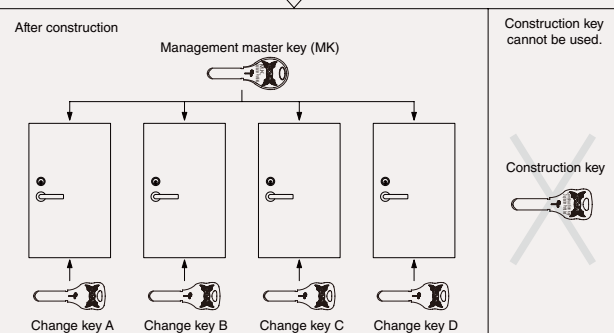
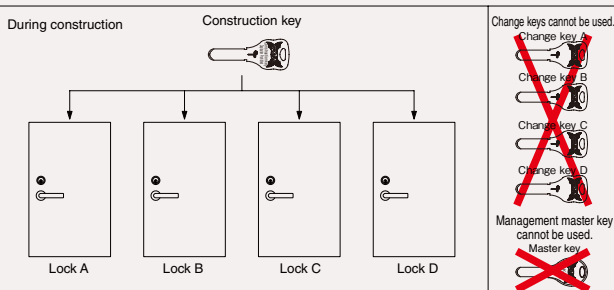
### ① When a master key <MK> system is not needed after construction is completed



Cancellation of construction key system (Canceled automatically by operation of the change key.)

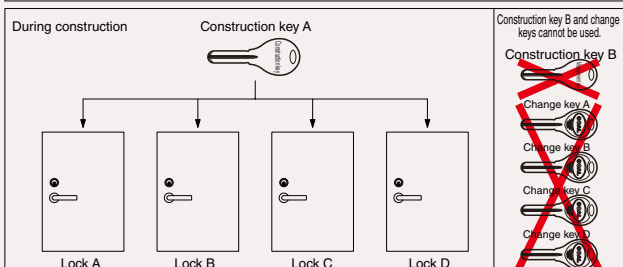


### ② When a master key <MK> system is needed after construction is completed

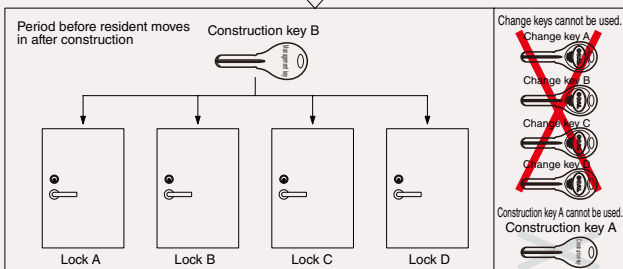


### ③ Double construction key system <DCNK>

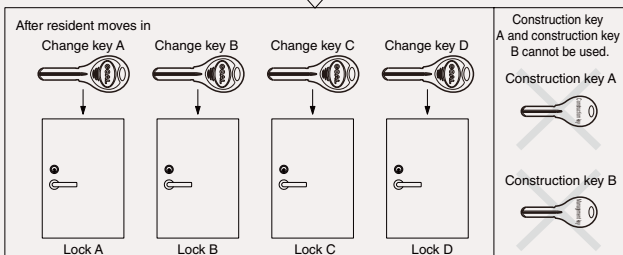
(Available V18, GV cylinder only)



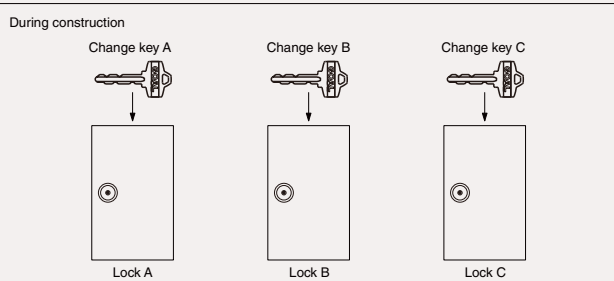
Cancellation of construction key system A (Canceled automatically by operation of construction key B.)



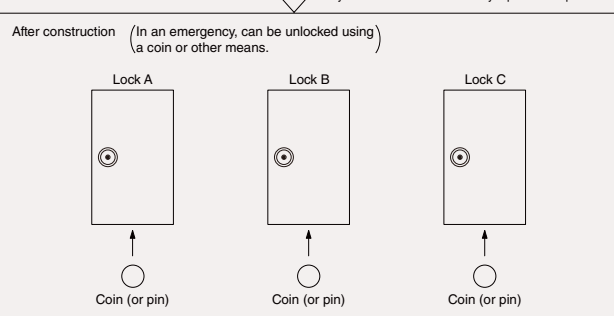
Cancellation of construction key system B (Canceled automatically by operation of the change key.)



### ④ Construction key system for bathrooms (49 cylinders)



Cylinder function is canceled by a particular operation.



### <Models equipped with 49 cylinders>

- Cylindrical locks ULW-49, 49BL

\* A special key system for hotel locks is also available. See P.31 for details.





# Key change (V18, GV-KCH) system (option spec.)

## (Our original key system)

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Dead locks  
Cremon  
locks  
Glass door  
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Emergency  
locks  
Cup handle  
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Electric locks  
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Ten-key  
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Key switches  
Interlock /  
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Electric  
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## V18 or GV cylinder key change (V18, GV-KCH) system (option spec.)

This key change system delivers major improvements to key management safety and cost reductions by making it possible to change keys without changing the locks at times such as when a key is lost or a resident moves in or out. Another large feature is that even when a master key (MK) system is installed, the MK and change keys (CK) can be changed.

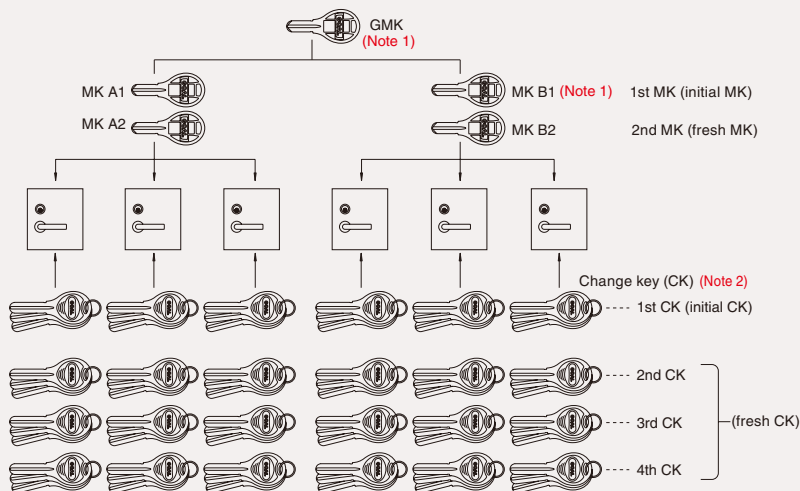
### ① Master key (MK) supporting type: V (or GV)-KCH-M system (for buildings and apartments where a MK system or other key system is installed)

#### <V(GV)-KCH-M system example (1)>

\* This figure shows an example equipped with a GMK system where the MK can be changed once and the change keys (CK) can each be changed 3 times.

#### <Features>

- Key changes for the change keys and MK are possible.
- Even when the MK was changed, the same GMK and change keys (CK) can continue to be used.  
(In the same way, even when the change keys (CK) were changed, the same MK and GMK can continue to be used.)
- The possible number of key changes is decided when discussing the initial key plan.
- At the time of initial shipping, only the first keys (initial keys) are set.
- The second and later keys for key changes (fresh keys) are shipped after they are ordered.

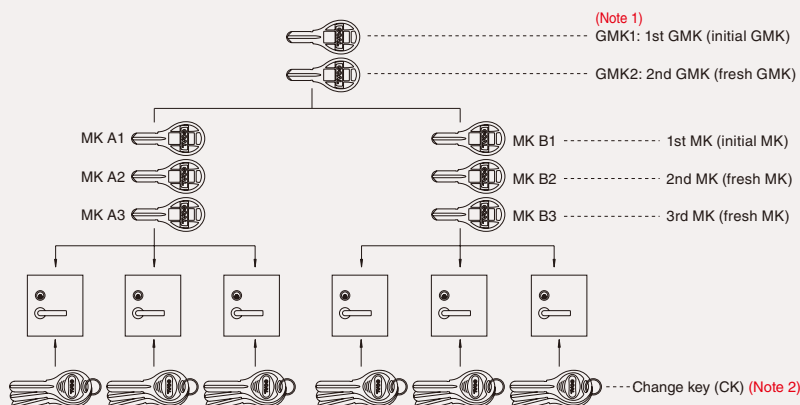


#### <V(GV)-KCH-M system example (2)>

\* This figure shows an example of a system where the GMK can be changed once and the MK can be changed 2 times.

#### <Features>

- Key changes for the GMK and MK are possible.
- Even when the GMK or MK was changed, the same change keys (CK) can continue to be used.  
(The other features are the same as system example (1) above.)



Note 1: The number of GMK and MK is decided based on consultation.

Note 2: With standard specifications, the number of change keys (CK) is a set of 3.

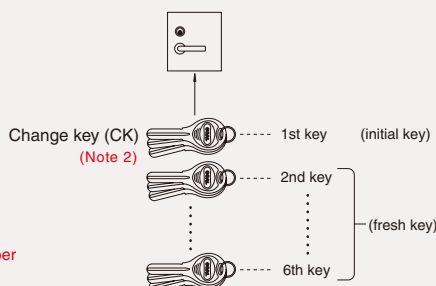
### ② Change key (CK) supporting type: V (or GV)-KCH-BE system

This is an individual key change system.

#### <Features>

- Key changes for the change keys (CK) are possible.
- The number of possible key changes is 5 for V18 and 6 for GV.
- The second and later keys for key changes (fresh keys) are shipped after they are ordered.

#### <V(or GV)-KCH-BE system example>



Note 2: With standard specifications, the number of change keys (CK) is a set of 3.

### GP master key change system (option spec.)

With GP cylinders, it is possible to add an optional key change system for master keys. However be aware that the number of possible key changes is only 1 and key changes for the change keys are not possible.





# GV Cylinder Universal Key System® (UKS2) (Option)

(Our original key system) (Pat.) (\* Patents obtained in the US, Canada, China, South Korea, and Taiwan in addition to Japan.)

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Integral  
locks  
Cylindrical  
locks

Rim dead  
locks

Dead locks  
Cremon  
locks  
Glass door  
locks

Emergency  
locks  
Cup handle  
locks

Sliding  
door locks

▼ Electric locks  
Security systems

Ten-key  
pads

Key switches  
Interlock /  
emergency  
door  
systems

Hotel card  
locks

Electric  
locks

Electrical  
conductors,  
Control  
boxes

Dimensions

## GV Cylinder Universal Key System® (UKS2) (Option)

The most significant feature of this system is the ability to switch over keys numerous times without changing cylinders or locks, such as when a key is lost or when a resident moves in or out.

### <Application example>

#### A During construction



All cylinders can be operated with this key during construction.

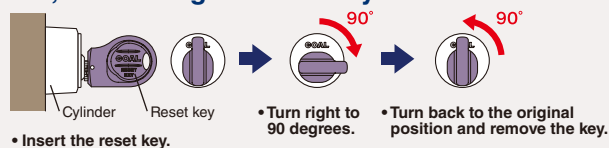
\* Be sure to discard this key after construction is completed.

(When using the optional reset tool (reset tool specification), reset) by using both the construction key and the reset tool. (Note 1)

#### B After construction (Note: If a resident has been decided, set using the resident key.)

##### <Setting>

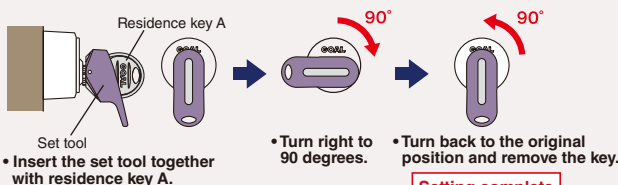
##### 1 First, reset using the reset key. (Note 1)



Reset complete

##### 2 Next, set using the set tool and residence key A.

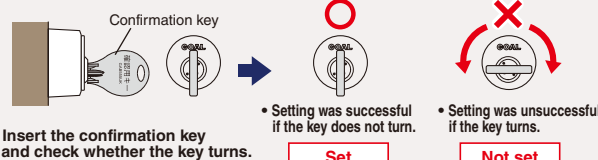
Use the set tool together with residence key A.



Setting complete

##### 3 Be sure to check the setting state after completion using the confirmation key.

Use the confirmation key to make sure the lock has been set. If set properly, the confirmation key will not turn. If the confirmation key turns, set again beginning with resetting.



Set

Not set

The manager gives residence key A to Resident A.  
Resident A uses residence key A.

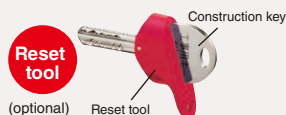
Residence key A  
Resident key



##### <Optional specifications (reset tool specifications)>

(Note 1)

To reset using the reset tool (optional), use the reset tool together with the construction key to reset.



To set residence key A, use the set tool together with residence key A as specified above.



(Note 2)

When a resident moves in or out of a residence, the lock must be changed from residence key A to residence key B. Use the reset tool together with residence key A to reset the lock, and then set using the set tool together with residence key B.



(Note 3)

\* Setting all unoccupied residence locks for use with residence key Z makes it possible to manage all vacant rooms with only residence key Z.

#### C Resident changeover (Changing from residence key A to residence key B)

##### 1 First, reset using the reset key.

(Reset by performing the same method as above.)

##### 2 Next, set using the set tool and residence key B.

Set using the set tool and residence key B (for use by the new resident).

(Set by performing the same method as above.)

Note: If the lock is set for use with residence key B, the original residence key A will no longer be usable.

##### 3 Check the setting state.

Be sure to check the setting state after completion using the confirmation key.

(Check by performing the same method as above.)



Resident B

#### D Using a master key (optional)

An optional master key can be set to a UKS2 system.

A master key can be used to operate all cylinders in a group regardless of the setting state.



\* Using the set tool together with the master key will force any currently used residence key into a "Shut-out" state.





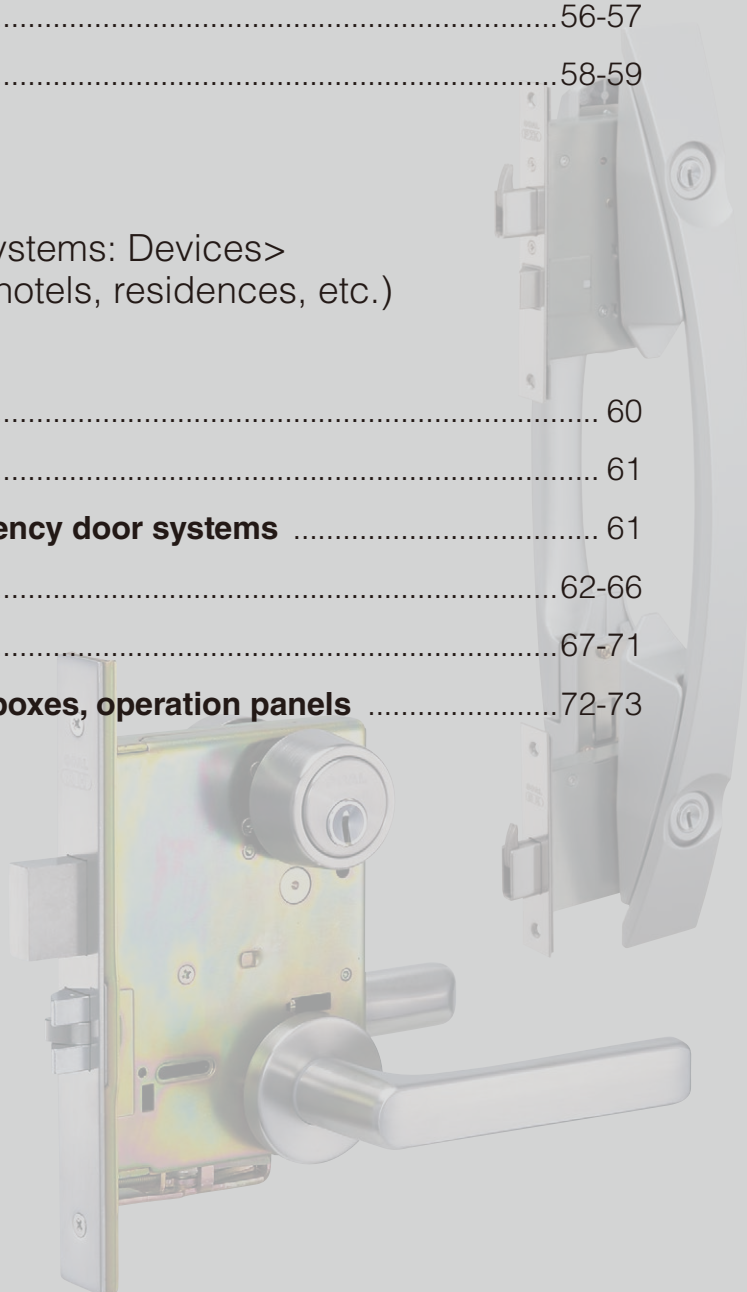
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Applications Home entrances, etc.

PXK series

⚠ Precautions: Avoid using reinforced wood handles outdoors.

GON type [Aluminum, reinforced wood ⚠] (\* For out-swinging doors only)

GOP type [Aluminum, reinforced wood ⚠] (\* For out-swinging doors only)



**GON 369**  
Aluminum,  
silver coating



**GON-C 369**  
Reinforced wood,  
light brown ⚠  
Escutcheon:  
Aluminum, silver



**GON-C 377**  
Reinforced wood,  
light brown ⚠  
Escutcheon: Aluminum,  
champagne silver



**GON-A 80**  
Reinforced wood,  
brown ⚠  
Escutcheon:  
Aluminum, umber



**GON-B 8800**  
Reinforced wood, dark  
brown ⚠  
Escutcheon: Aluminum,  
black



**GOP 369**  
Aluminum,  
silver coating



**GOP-C 369**  
Reinforced wood, light  
brown ⚠  
Escutcheon: Aluminum,  
silver

(\* The same five finish types as GON are available.)

PX, PXK series

GOQ type [Aluminum] (\* For out-swinging doors only)

GSA type [Aluminum]



**GOQ 6600**  
Aluminum,  
metallic silver



**GOQ 2740**  
Aluminum,  
metallic gold



**GOQ 8800**  
Aluminum,  
black coating



**GOQ 3940**  
Aluminum,  
pearl white(Note)



**GSA 364**  
Aluminum,  
silver coating



**GSA 269**  
Aluminum,  
gold coating



**GSA 80**  
Aluminum,  
umber coating



**GSA 8800**  
Aluminum,  
black coating

Note: The GOQ 3940 (pearl white) finish is a special specification.

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## Applications Home entrances, etc.

### PX, PK series

(The photos show two-lock types. GOE one-lock types are also available.)

#### GOE type [Aluminum]



**GOE 364**  
Aluminum,  
silver coating



**GOE 80**  
Aluminum,  
umber coating



**GOE 269**  
Aluminum,  
gold coating



**GOE 8800**  
Aluminum,  
black coating



**GOH type [Aluminum]**  
(\* For out-swinging doors only)

**GOH 364**  
Aluminum,  
silver coating

\* An umber finish is also available.

### PVKU series (one-lock type)

#### GOR type [Aluminum] (\* For out-swinging doors only)



**GOR 364**  
Aluminum,  
silver coating



**GOR 269**  
Aluminum,  
gold coating



**GOR 80**  
Aluminum,  
umber coating

\* An aluminum, black coating [8800] finish is also available.

### PL, PLK series (one-lock type)

#### GOVA type [Aluminum, stainless steel]



**GOVA 369**  
Aluminum,  
silver coating



**GOVA 269**  
Aluminum,  
gold coating



**GOVA 11**  
Dull stainless  
steel

\* Aluminum, umber coating and aluminum, black coating finishes are also available.

### PZ, PZK series

(The photos show two-lock types. One-lock types are also available.)

#### GOF type [Aluminum]



**GOF 364**  
Aluminum,  
silver coating



**GOF 80**  
Aluminum,  
umber coating



**GOF 269**  
Aluminum,  
gold coating

\* An aluminum, black coating [8800] finish is also available.

### PXY series (passage latches)

(\* Use in combination with a dead lock or other lock type.)

#### GOT type [Aluminum] B/s 64 mm (\* For out-swinging doors only)



**GOT 369**  
Aluminum, silver coating



**GOT 269**  
Aluminum, gold coating

\* Aluminum, umber coating and aluminum, black coating finishes are also available.



# List of PY push-pull passage latch handles

**Applications** Home entrances, etc. (Use in combination with a dead lock, electric lock, or other lock type.)

■ Plate handles (\* For out-swinging doors only)

**GOL type [Aluminum]** (B/s 51 mm, 64 mm)



**GOL 364**  
Aluminum,  
silver coating



**GOL 43**  
Aluminum,  
alumite silver



**GOL 269**  
Aluminum,  
gold coating



**GOL 24**  
Aluminum,  
alumite gold



**GOL 8800**  
Aluminum,  
black coating



**GOL 80**  
Aluminum,  
umber coating

**GOM type [Aluminum]** (B/s 64 mm)



**GOM 364**  
Aluminum,  
silver coating



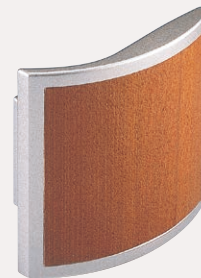
**GOM 269**  
Aluminum,  
gold coating



**GOM 80**  
Aluminum,  
umber coating

\* An aluminum, black coating [8800] finish is also available.

**GMA type [Aluminum]** ⚠ (B/s 64 mm)



**GMA**  
Aluminum and natural wood cosmetic panel ⚠  
Escutcheon: Aluminum, silver coating [364]

⚠ Because wooden products contain wood parts, avoid using them outdoors.

**GOU type [Aluminum]** (B/s 64 mm)



**GOU 47**  
Aluminum,  
alumite silver



**GOU 269**  
Aluminum,  
gold coating



**GOU 80**  
Aluminum,  
umber coating

\* Aluminum, silver coating [364] and aluminum, black coating [8800] finishes are also available.

**GOX type [Aluminum]** (B/s 64 mm)



**GOX 364**  
Aluminum,  
silver coating



**GOX 269**  
Aluminum,  
gold coating

\* Aluminum, umber coating [80] and aluminum, black coating [8800] finishes are also available.

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## Applications

Home entrances, etc. (Use in combination with a dead lock, electric lock, or other lock type.)

(\* For out-swinging doors only, however can also be produced for in-swinging doors based on special orders.)

## Bar handles (B/s 35 mm, 51 mm, 64 mm)

(Note)

(Note: With B/S35 mm, depending on the conditions of the door and frame, there is the risk that the handle may contact the frame. Be sure to check in advance.)

### ARC type [Aluminum]



#### ARC 23

Aluminum, alumite gold  
Escutcheon: Aluminum,  
gold coating [269]



#### ARC 74

Aluminum, antique  
Escutcheon: Brass,  
antique [74]



#### ARC 8800

Aluminum,  
black coating

### GOB type [Aluminum, stainless steel]



#### GOB 269

Aluminum,  
gold coating



#### GOB 364

Aluminum,  
silver coating



#### GOB 12

Bright stainless steel  
Escutcheon: Aluminum,  
silver coating [364]

### GOF type [Aluminum]



#### GOF 269

Aluminum, gold coating



#### GOF 364

Aluminum, silver  
coating

### MOA, MOB, MOC types [Reinforced wood] ⚠

⚠ Precautions: Avoid using reinforced wood handles outdoors.



#### MOA

Reinforced wood ⚠ ,  
brown  
Escutcheon: Aluminum,  
umber coating [80]



#### MOB

Reinforced wood ⚠ ,  
dark brown  
Escutcheon: Aluminum,  
black coating [8800]



#### MOC

Reinforced wood ⚠ ,  
light brown  
Escutcheon: Aluminum,  
champagne silver [377]

\* Umber coating [80] is also available.

\* In addition to the above PY handles, an EGL type is also available.

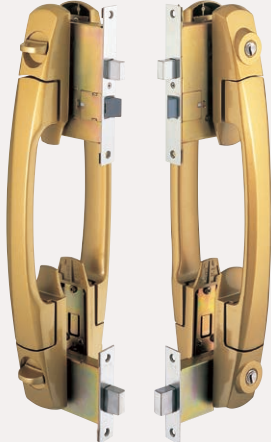


**Applications** Home entrances, main entrances, etc. (\* GOH, GON, GOP, and GOQ are for out-swinging doors only.)

- **V-PXK SK-5 GOE364(R)** (hooked deadbolt)  
(Photo shows a V18 cylinder, GOE handle, silver finish, R-hand type.)



- **V-PX GDT-5 GOE 269(R)**  
(Photo shows a V18 cylinder, GOE handle, gold finish, R-hand type.)



- **GOP handle**



- **GSA handle**



- **GOQ handle**



- **V-PXK SK-5 GON-C369(R)**  
(Photo shows a GON handle, reinforced wood, silver, R-hand type.)  
(Avoid using reinforced wood handles outdoors.)



## Grip handle-type push-pull locks delivering superior security, operability, and stylish designs

### Features

- Double-lock type push-pull locks for superior security
- PXK uses a hooked deadbolt.
- TM thumbturns and TME and TMB security thumbturns are also available. These can prevent the thumbturn from being turned via a hole from outside the door. (Option) (Refer to P.5 for details.)
- \* Some handles can be used with in-swinging doors. (Refer to the table below.)

### Specifications (Door thickness: ## mm or more~less than ## mm)

Backset	64 mm	
Door thicknesses (Contact GOAL for more information.)	31~34 / 34~37 / 37~40 / 40~43 mm	
Gap (door and jamb)	6 mm or less	
Hand	GOE handle GSA handle	R type (for right-hinged out-swinging door), L type (for left-hinged out-swinging door), UR type (for right-hinged in-swinging door), UL type (for left-hinged in-swinging door)
	GON handle GOP handle GOH handle GOQ handle	R type (for right-hinged out-swinging door), L type (for left-hinged out-swinging door)
Cylinder [symbol] (Note)	GOE handle GOH handle	V18 [V], GV [GV], GP [GP] 6 pins [P], 7 pins [Z]
	GSA handle	V18 [V], GV [GV], GP [GP]
	GON handle GOP handle GOQ handle	V18 [V], GV [GV]

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

Thumbturn	GOE handle GOH handle GSA handle	Standard type thumbturn (TM, TME, and TMB thumbturns are available as options.)
	GON handle GOP handle GOQ handle	TM type (standard specifications) (TME and TMB thumbturns are available as options.)
Key systems	Various key systems available (MK, GMK, RMK, CNK, etc.) (V18, GV: Optional key change system available) (GV except for GOH handles: Optional Universal Key System (UKS2) available)	
Handle design and finish	GOE, GOH, GON, GOP, GOQ, GSA types Various finishes are available. Refer to P.17, 18.	

### Corresponding table (Illustration)

R type	Right-hinged, out-swinging door	L type	Left-hinged, out-swinging door
UR type	Right-hinged, in-swinging door	UL type	Left-hinged, in-swinging door

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**PZK  
PZ**

## Bar handle-type push-pull locks

PZK SK-5 GOF (hooked deadbolt), PZ GDT-5GOF

**Applications** Home entrances, main entrances, etc.

- **V-PZK SK-5 GOF 364(R)** (hooked deadbolt)  
(Photo shows a V18 cylinder, GOF handle, silver finish, R-hand type.)



- **V-PZ GDT-5 GOF 269(R)** (standard deadbolt)



**Bar handle-type push-pull locks delivering superior security and operability**  
(PZK has a hooked deadbolt.)

### Features

- Double-lock type push-pull locks for superior security
- PZK uses a hooked deadbolt as a crowbar countermeasure.
- TM thumbturns and TME and TMB security thumbturns are also available. These can prevent the thumbturn from being turned via a hole from outside the door. (Option) (Refer to P.5 for details.)

### Specifications (Door thickness: ## mm or more~less than ## mm)

Backset	64 mm
Door thicknesses (Contact GOAL for more information.)	V18, GV, GP cylinders: 36~38 / 38~41 / 41~44 mm 6-pin, 7-pin cylinders: 31~34 / 34~37 / 37~40 / 40~43 mm
Gap (door and jamb)	6 mm or less
Hand	R type (for right-hinged out-swinging door), L type (for left-hinged out-swinging door) UR type (for right-hinged in-swinging door), UL type (for left-hinged in-swinging door)
Cylinder [symbol] (Note)	V18 [V], GV [GV], GP [GP], 6 pins [P], 7 pins [Z]
Thumbturn	Standard type thumbturn (TM, TME, and TMB thumbturns are also available as options.) (Refer to P.5 for details.)
Key systems	Various key systems available (MK, GMK, RMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Optional Universal Key System (UKS2) available) With UKS2, the escutcheon shape is different.)
Handle design and finish (Refer to P.18 for details.)	GOF type (aluminum) Silver coating (364) Gold coating (269) Umber coating (80) Black coating (8800)

### ■ PZK and PZ corresponding table (Illustration)

R type	Right-hinged, out-swinging door	L type	Left-hinged, out-swinging door
UR type	Right-hinged, in-swinging door	UL type	Left-hinged, in-swinging door

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

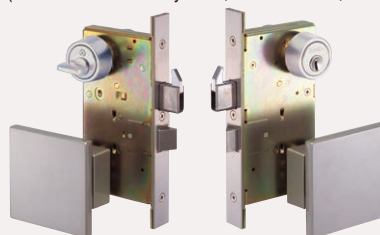
**PLK  
PL**

## Plate handle-type push-pull locks (one-lock type)

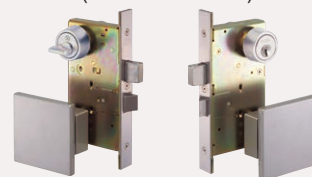
PLK-5GOVA (hooked deadbolt), PL-5GOVA (standard deadbolt)

**Applications** Home entrances, main entrances, etc.

- **V-PLK-5GOVA 369(R)** (hooked deadbolt)  
(Photo shows a V18 cylinder, GOVA handle, silver finish, R-hand type.)



- **V-PL-5GOVA 369(R)** (standard deadbolt)



**Plate handle, one-lock type push-pull locks delivering superior operability, and developed for the ultimate in cost performance** (PLK has a hooked deadbolt.)

### Specifications (Door thickness: ## mm or more~less than ## mm)

Model	PLK (hooked deadbolt)	PL (standard deadbolt)
Backset	64 mm	
Door thicknesses (Contact GOAL for more information.)	29~33 / 33~38 / 38~43 / 43~48 / 48~53 mm	
Gap (door and jamb)	6 mm or less	
Hand	R type (for right-hinged out-swinging or right-hinged in-swinging door), L type (for left-hinged out-swinging or left-hinged in-swinging door)	
Cylinder [symbol] (Note)	V18 [V], GV [GV], GP [GP], 6 pins [P], 7 pins [Z]	
Thumbturn	Standard type thumbturn (TM, TME, and TMB thumbturns are also available as options.) (Refer to P.5 for details.)	
Handle design and finish	GOVA type (aluminum) (coating finish) GOVA type (stainless steel)	Silver (369), gold (269), umber (80), black (8800) Dull finish (11)
Model No.	PLK, PL-3, 5, 6, 7	

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

Lock handing	Corresponding table (Illustration)	
R type	Right-hinged, out-swinging	Right-hinged, in-swinging
L type	Left-hinged, out-swinging	Left-hinged, in-swinging

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**Applications** Home entrances, main entrances, etc.  
(\* For out-swinging doors only.)

- **V-PVKU-5 GOR 364TM(R)** (one-lock type)  
(Photo shows a V18 cylinder, GOR handle, silver finish, TM thumbturn, R-hand type.)



## Plate handle, one-lock type push-pull locks delivering superior operability

### Specifications (Door thickness: ## mm or more~less than ## mm)

Backset	64 mm
Door thicknesses (Contact GOAL for more information.)	31~34 / 34~37 / 37~40 / 40~43 mm
Gap (door and jamb)	6 mm or less
Hand	R type (for right-hinged out-swinging door), L type (for left-hinged out-swinging door) * For out-swinging doors only
Cylinder [symbol]	V18 [V], GV [GV]
Thumbturn	TM type (standard) (TME and TMB thumbturns are available as options.) (Refer to P.5.)
Handle (Refer to P.18.)	GOR type (aluminum: silver, gold, umber, black)

**Applications** Home entrances, main entrances, etc.  
(\* For out-swinging doors only.)

- **Dead lock V-LDK-5 369** (hooked deadbolt)  
(Photo shows a V18 cylinder, silver finish.)



- **Push-pull passage latch PXY-GOT 369**  
(Photo shows a GOT handle, silver finish.)



(\* Two dead locks are used, at top and bottom.)

## Combination of PXY push-pull passage latch delivering excellent stylish design and operability together with dead locks for superior security

### Features

- The handle of the PXY push-pull passage latch was designed for easy operation.
- The LDK dead locks used for the double locks have hooked deadbolts that prevent illegal unlocking with a crowbar.
- LDK dead locks are available with TM thumbturns and TME and TMB security thumbturns that are resistant to attempts at turning the thumbturn via a hole from outside the door. (Option) (Refer to P.5 for details.)

### Specifications (Door thickness: ## mm or more~less than ## mm)

Push-pull passage latch PXY-GOT		
Backset	64 mm	
Door thicknesses (Contact GOAL for more information.)	31~34 / 34~37 / 37~43 mm	
Gap (door and jamb)	6 mm or less	
Handle design and finish	GOT type (aluminum) (coating finish)	Silver (369), gold (269), umber (80), black (8800)
Dead locks		
Model	LDK (hooked deadbolt)	
Backset	64 mm, 76 mm	
Door thicknesses	29~43 / 43~53 mm	
Gap (door and jamb)	6 mm or less	
Cylinder [symbol] (Note)	V18 [V], GV [GV], GP [GP], 6 pins [P], 7 pins [Z]	
Key systems	Various key systems available (MK, GMK, RMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Optional Universal Key System (UKS2) available)	

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

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Electric  
locks

Electrical  
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Control  
boxes

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**Applications** Home entrances, etc. (\* For out-swinging doors only, however can also be produced for in-swinging doors based on special orders.)

- **Dead lock V-LDK-5 364** (hooked deadbolt)  
 (Photo shows a V18 cylinder, silver finish.)



- **Push-pull passage latch PY-GOM 364**  
 (Photo shows a GOM handle, silver finish.)



(\* Two dead locks are used, at top and bottom.)

## Combination of PY push-pull passage latch delivering excellent stylish design and operability together with dead locks for superior security

### Features

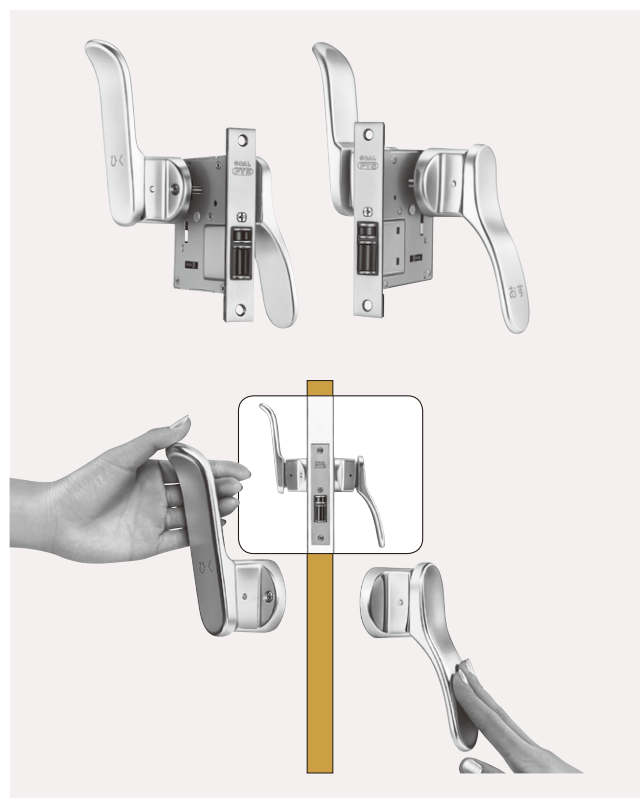
- The handle of the PY push-pull passage latch is easy to operate and available in a wide variety of designs.
- The LDK dead locks used for the double locks have hooked deadbolts that prevent illegal unlocking with a crowbar.
- LDK dead locks are available with TM thumbturns that are resistant to attempts at turning the thumbturn via a hole from outside the door, as well as with TME and TMB security thumbturns.  
 (Option) (Refer to P.5 for details.)

### Specifications (Door thickness: ## mm or more~less than ## mm)

Push-pull passage latch PY-□□□□	
Backset	64 mm
Door thicknesses (Contact GOAL for more information.)	28~33 / 33~38 / 38~43 / 43~48 / 48~53 mm
Gap (door and jamb)	6 mm or less
Handle	Various types are available. (Refer to P.19, 20 for details.)
Dead locks	
Model	LDK (hooked deadbolt)
Backset	64 mm, 76 mm
Door thicknesses (Contact GOAL for more information.)	29~43 / 43~53 mm
Gap (door and jamb)	6 mm or less
Cylinder [symbol] (Note)	V18 [V], GV [GV], GP [GP], 6 pins [P], 7 pins [Z]
Key systems	Various key systems available (MK, GMK, RMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Optional Universal Key System (UKS2) available)

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

**Applications** Hospitals, broadcast rooms, interior partitions, etc.



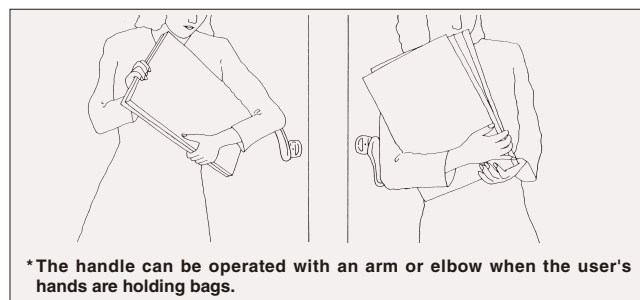
## Push-pull passage latches with muffling function

### Features

- Doors can be opened simply by pressing (or pulling) the handle.
- The lock itself also contains sound-absorbing material. The operating sound and door open/close sound are both extremely quiet.
- The design contains special improvements for excellent handle operability.  
 The shape was designed so that the handle can be operated with an arm or elbow when the user's hands are holding bags.
- The latching roller includes a special mechanism that prevents the door from being unintentionally opened by wind pressure or other cause.
- The amount of latch protrusion can be adjusted according to the door gap even after the lock is installed.

### Specifications (Door thickness: ## mm or more~less than ## mm)

Backset	64 mm
Door thicknesses	28~35 / 35~42 / 42~49 mm (Contact GOAL for more information.)
Gap (door and jamb)	8 mm or less



\* The handle can be operated with an arm or elbow when the user's hands are holding bags.





Notes: • Models indicated with (R, L) have lever handle handing.

• When using a handle marked with \*, there is the risk that the end of the handle shaft may contact the frame depending on the conditions of use.

# List of lever handles

(The roses of the handles in the photos are R4U roses (with some exceptions). Because a rose cannot be used with LY, LG, and LX lever handle locks and a backset of 32 mm, a K1U escutcheon is used instead.)

## ● Stainless steel (Escutcheon standard specification is an R4U rose.)

### NU type

Dull finish NU 11 S



Bright finish NU 12 S



### KU type

Dull finish KU 11 S



Bright finish KU 12 S



### TU type

Dull finish TU 11 S



### DU type

Dull finish DU 11 S



Bright finish DU 12 S



### COMU type (R, L) (Note)

Dull finish COMU 11 S (R)



Bright finish COMU 12 S (R)



### JUPU type

Bright finish JUPU 12 S



### ZU type\* (Note)

Dull finish ZU 11 S



### ORIU type\* (Note)

Dull finish ORIU 11 S



### LWINU type (R, L) (Note)

Dull finish LWINU 11 S (R)



### DBRU type (R, L) (Note)

Bright finish DBRU 12 S (R)



### KIAU type\* (Note)

Bright finish KIAU 12 S



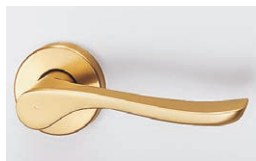
## ● Aluminum (Escutcheon standard specification is an R4U rose.)

### AU type (R, L) (Note)

Alumite silver AU 40 A (R)



Alumite gold AU 23 A (R)



Umber coating AU 80 A (R)



Black coating AU 88 A (R)



### ATLU type (R, L) (Note)

Alumite silver ATLU 40 A (R)



Alumite gold ATLU 23 A (R)



Umber coating ATLU 80 A (R)



### NFA type

Alumite gold NFA 23 A



### BU type

Alumite silver BU 40 A



Alumite gold BU 23 A



Umber coating BU 80 A



Black coating BU 88 A



### LBU type

Silver coating LBU 369 A



Gold coating LBU 269 A



Umber coating LBU 80 A



### BRKU type (R, L) (Note)

Alumite gold BRKU 23 A (R)



### COMU type (R, L) (Note)

Alumite silver COMU 40 A (R)



Alumite gold COMU 23 A (R)

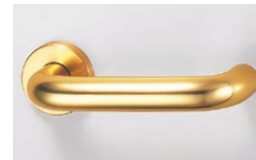


Umber coating COMU 80 A (R)



### DU type

Alumite gold DU 23 A



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# List of lever handles

(The roses of the handles in the photos are R4U roses (with some exceptions). Because a rose cannot be used )  
(with LY, LG, and LX lever handle locks and a backset of 32 mm, a K1U escutcheon is used instead.)

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## Aluminum (Escutcheon standard specification is an R4U rose.)

### EU type (R, L)\* (Note)

Silver coating EU 369 A (R)



Gold coating EU 269 A (R)



Umber coating EU 80 A (R)



Black coating EU 88 A (R)



### GOK type\* (Note)

Alumite silver GOK 40 A



Alumite gold GOK 23 A



### HU type (R, L) (Note)

Alumite silver HU 40 A (R)



Alumite gold HU 23 A (R)



Umber coating HU 80 A (R)



### JU type

Alumite silver JU 42 A



Alumite gold JU 23 A



Black coating JU 88 A



### KSA type\* (Note) Can be used with a backset of 51 mm or more.

Light silver KSA 671A



Titanium silver KSA 673A



Wrought iron black KSA 8880A



### KSB type\* (Note) Can be used with a backset of 51 mm or more.

Light silver KSB 671A



Titanium silver KSB 673A



Wrought iron black KSB 8880A



### KSC type\* (Note) Can be used with a backset of 51 mm or more.

Light silver KSC 671A



Titanium silver KSC 673A



Wrought iron black KSC 8880A



### ORIU type\* (Note)

Alumite silver ORIU 42 A



Alumite gold ORIU 23 A



Umber coating ORIU 80 A



### OBYU type\* (Note)

Alumite silver OBYU 42 A



Alumite gold OBYU 23 A



### PASU type (R, L)\* (Note)

Alumite silver PASU 40 A (R)



Alumite gold PASU 23 A (R)



Light brown coating PASU 641 A (R)



### PU type (R, L) (Note)

Alumite silver PU 40 A (R)



Umber coating PU 80 A (R)





Notes: • Models indicated with (R, L) have lever handle handing.  
• When using a handle marked with \*, there is the risk that the end of the handle shaft may contact the frame depending on the conditions of use.

● Aluminum (Escutcheon standard specification is an R4U rose.)

**ROAU** type (R, L) (Note)  
Silver coating ROAU 369 A (R)



Gold coating ROAU 269 A (R)



Bronze coating ROAU 263 A (R)



Umber coating ROAU 80 A (R)



**ROBU** type\* (Note)  
Silver coating ROBU 369 A



Gold coating ROBU 269 A



Bronze coating ROBU 263 A



Umber coating ROBU 80 A



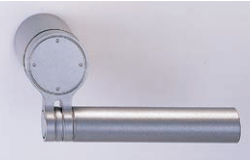
**TU** type  
Alumite silver TU 40 A



Alumite gold TU 23 A



**ST** type (R, L) (Note)  
Silver ST 369A (R)



**WINU** type (R, L) (Note)  
Alumite silver WINU 40 A (R)



Alumite gold WINU 23 A (R)



Umber coating WINU 80 A (R)



**ZU** type\* (Note)  
Alumite silver ZU 40 A



Alumite gold ZU 23 A



Umber coating ZU 80 A



Black coating ZU 88 A



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# Lever handle lock escutcheons

■ Escutcheons for LGK, LGF, LG, LGT, and LX series lever handle locks (\* Various finishes are available.)

## • R4U rose (standard specification)

(\* The R4U rose cannot be used with LG or LX backset 32 mm.)  
The K1U escutcheon is used instead.



Dull stainless steel  
(R4U 11S)

## • K1U escutcheon



Dull stainless steel  
(K1U 11S)

## • N1U escutcheon

(\* Cannot be used with LG or LX backset 32 mm. Can be used with backset 38 mm or more.)



Dull stainless steel  
(N1U 11S)



Bright stainless steel  
(N1U 12S)



Stainless steel,  
umber coating  
(N1U 80)

## • N5U escutcheon (coordinating plate) (\* Can be used with LG or LX series and backset 51 mm, 64 mm.)



Dull stainless steel (t2.0)  
(N5U 11S)



Bright stainless steel (t2.0)  
(N5U 12S)



Aluminum (t3.0), alumite gold  
(N5U 23A)

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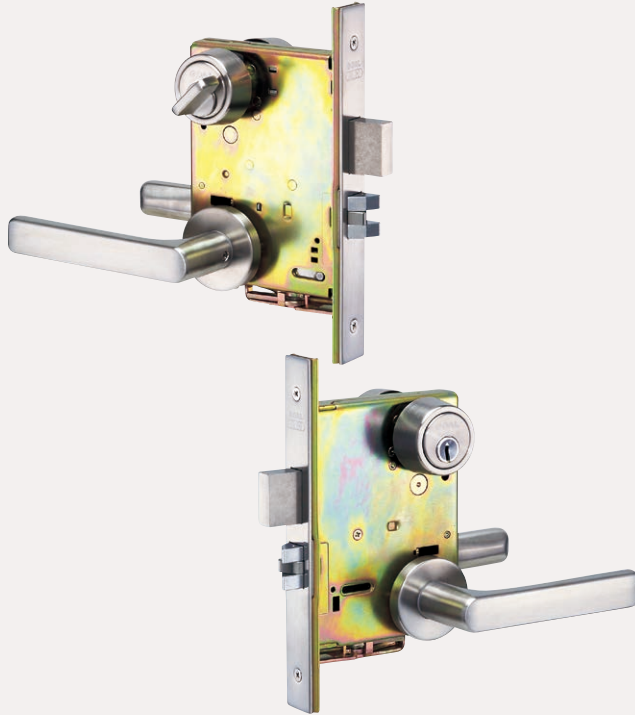
Dimensions



### Applications Offices, storerooms, machine rooms, main entrances, etc.

#### •V-AHL-5NU11S (R4U)

(Photo shows example of V18 cylinder, NU lever handle, dull stainless steel finish, R4U rose.)



#### •V-AHLP-5NU11S (R)

(Photo shows example of V18 cylinder, NU lever handle, dull stainless steel finish, R type for right-hinged out-swinging door.)



#### Precautions:

1. Be aware that the rose for AHLP anti-panic locks is a special rose, and the door notch dimensions are different from AHL.
2. Do not use with the deadbolt facing down. Doing so may result in operating failure.

#### • Example of S1U escutcheon use

(Note: These escutcheons cannot be used with AHLP.)



Dull stainless steel  
(S1U 11S)



Dull brass  
(S1U 21B)

## High class lever handle locks that deliver superior security, durability, and operability

### Features

- Superior security and exceptional durability
- Superior operability and smooth operation
- The latch includes an anti-friction latch bolt.
- A common strike plate is available as an option.

### Specifications (Door thickness: ## mm or more-less than ## mm)

#### •AHL-1, 3, 5, 6, 68, 7, 8 (For the AHL-9 specifications, refer to P.31.)

Backset	76 mm, 100 mm
Door thicknesses (Contact GOAL for more information.)	<R4U rose> (AHL-1, 3, 5, 6, 68, 7, 8) 35~42.5 / 42.5~50 mm <S1U escutcheon> (AHL-5, 6, 68, 8) 33~38 / 38~43 / 43~48 / 48~53 mm
Gap (door and jamb)	6 mm or less for AHL-68, 8, 9 with trigger bolt
Lever handle	Various types are available. (Refer to P.25~28 for details.)
Escutcheon	R4U rose, R7U rose, S1U escutcheon
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Thumbturn	Standard type, P type (R, L) (option)
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Universal Key System not supported)
Hand	For AHL-68, 8, 9 which use an S1U escutcheon, there are R types and L types for lock handing.

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

#### •AHLP-5, 7

Backset	76 mm, 100 mm
Door thicknesses	33~38 / 38~43 / 43~48 / 48~50 / 50~53 mm
Escutcheon	Special AHLP rose (ELTP rose)
Hand	R type (for right-hinged out-swinging or left-hinged in-swinging door), L type (for left-hinged out-swinging or right-hinged in-swinging door)

\* Other specifications are the same as AHL.

### List of AHL series lever handle lock and AHLP series anti-panic lock models

Compatible cylinders and cylinder symbols	Model (Note 1)	Illustration (Note 2)	Compatible cylinders and cylinder symbols	Model (Note 1)	Illustration (Note 2)
—	AHL-1**		GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	AHL-68** (Note 4)	
—	AHL-3**		GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	AHL-7**	
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	AHL-5**		GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	AHLP-7** (Anti-panic locks) (Notes 3, 4)	
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	AHLP-5** (Anti-panic locks) (Notes 3, 4)		GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	AHL-8** (Note 4)	
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	AHL-6**		GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	AHL-9** (Note 4) (Refer to P.31.)	

Notes 1: \*\* indicates the lever handle design symbol and finish symbol.

2: The key in the illustrations is a dummy key for a V18 cylinder.

3: Be aware that the rose for AHLP-5, 7 anti-panic types has a different shape, and the door notch dimensions are also different.

4: The AHLP-5, 7 and AHL-68, 8, 9 have lock handing (L type or R type). Specify L type or R type. (specify-type) when ordering. Please refer to P.35 how to determine lock handing.



### Applications Hotel guest rooms, etc.

#### • V-AHL-9NU11 (S1U) (R)

(Photo shows a V18 cylinder, NU lever handle, dull stainless steel finish, S1U escutcheon, R type for left-hinged in-swinging door.)



#### ■ AHL-9 hotel lock handle variations

##### • V-AHL-9 HIBU 22B W1 (\*) <Bright brass, wood (oak)>



##### • V-AHL-9 HIBU 22B S1 (\*) <Bright brass, marble (white)>



##### • V-AHL-9 COMU 23A <Alumite gold>



(Escutcheon finish is dull brass.)

##### • V-AHL-9 DU 12S (\*) <Bright stainless steel>



(\* indicates special specifications.)

## High class lever handle hotel locks that deliver superior security, durability, and operability

### Features

- The outside lever is fixed and the door locks automatically when it is closed.  
The outside lever handle is fixed at all times and the door locks automatically when it is closed. It cannot be opened without the key.
- A special key system for hotels is available.
- Equipped with a shutout function that protects customer safety and privacy.
- Equipped with an anti-panic function.

\* AH-9 knob-type hotel locks are also available. (See P.37 for details.)

#### ■ AHL-9, AH-9 hotel lock key systems

Because hotel locks are required to protect customer privacy and provide security, a special key system for hotels is available.



##### Guest key

This is a key used by the guests. The door locks automatically when it is closed, and the guests must take the key with them when leaving the room or they will be unable to open the door. When the lock is shut out from inside the room, the door cannot be opened with the key.



##### Shutout key (display key)

This is a key that can shut out the lock so that the master key cannot be used while the guest is out of the room. Even when the lock is shut out, this key can unlock the lock and is also known as the "display key."



##### Master key (maid key)

This is a key used by the hotel bell staff and maids, and is the master key for the guest keys. Therefore all of the rooms within a certain range can be opened with this one key. However in the same way as the guest key, this key cannot be used when the lock is shut out.



##### Emergency key

This key is used in emergencies. All shut out rooms can be opened with this one key. This key is stored carefully by the hotel. Hotel management must be present at the site when this key is used.

### Specifications (Door thickness: ## mm or more~less than ## mm)

Backset	76 mm, 100 mm
Door thicknesses (Contact GOAL for more information.)	33~38 / 38~43 / 43~48 / 48~53 mm
Gap (door and jamb)	6 mm or less
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Thumbturn	Standard type only
Key systems	Hotel key systems Various key systems available (MK, GMK, GGMK, CNK, etc.) (For V18 key change systems, please consult with us.) (GV key change systems and Universal Key Systems are not supported.)
Lever handle	Various types are available. (Refer to P.25~28 for details.)
Escutcheon material and finish (symbol)	S1U type (Dull stainless steel (11S), bright stainless steel (12S)) Brass and dull nickel (21B), bright chrome (22B)
Hand	R type (for left-hinged in-swinging or right-hinged out-swinging door), L type (for right-hinged in-swinging or left-hinged out-swinging door)

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

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**Applications** Offices, main entrances, home entrances, etc.

● **V-LG-5NU11S(R4U)**

(Photo shows a V18 cylinder, NU lever handle, dull stainless steel finish, R4U rose.)



● **V-LGK-5NU** (hooked deadbolt)  
(backset: 64 mm only)



● **LG-45**

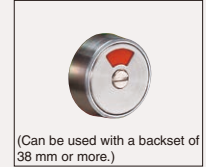
Emergency cylinder with indicator



(LG-4 without an indicator is also available.)

● **LG-45VF**

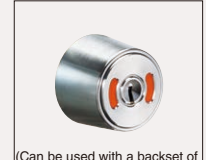
Emergency cylinder with large indicator



(Can be used with a backset of 38 mm or more.)

● **V-LG-5(ND)**

ND cylinder with indicator



(Can be used with a backset of 51 mm or more.)

## High class lever handle locks that deliver superior security, durability, and operability

### Features

■ V-LGUL, which has been registered under the U.S. UL security standard (UL437), is also available.

■ Various thumbturns are available as options.



\* TMK and other security thumbturns are also available. (Refer to P.5 for details.)

■ Includes a case steady brace. (Inside the lock case)

### Specifications (Door thickness: ## mm or more-less than ## mm)

Model	LG	LGK
Backset (Notes 1, 2)	32, 38, 51, 64, 76 mm	64 mm
Door thicknesses (Contact GOAL for more information.)	29~33 / 33~43 / 43~53 mm	
Cylinder [symbol] (Note 3)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]	
Thumbturn	Standard type, BF type, TM type, TME type, TMB type, others (Refer to P.5.)	
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Optional Universal Key System (UKS2) available)	
Lever handle	Various types are available. (Refer to P.25~28 for details.)	
Escutcheon (Note 1)	B/s 32 mm ....K1U escutcheon B/s 38, 51, 64, 76 mm ....Optional R4U rose (standard specifications) and escutcheon are also available. (Refer to P.29.)	

Note 1: With LG and backset 32 mm, an R4U rose cannot be used. A K1U escutcheon (refer to P.29) is used instead. The deadbolt throw is also 16 mm.

2: With LG-4, 45 and backset 38, 51, or 64 mm, the deadbolt throw is 16 mm. With backset 76 mm, the throw is 21 mm.

3: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

### List of LG, LGK, LGF, LGT, LX series lever handle lock models

\* Various cylinders are available (GP, V18, GV, etc.).

When ordering, add the cylinder symbol (GP, V, GV, etc.) to the model, for example V-LG-5NU11S.

Compatible cylinders and cylinder symbols	Model	Illustration	Compatible cylinders and cylinder symbols	Model	Illustration
—	LG LGF -1** LX		GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	LG LGK LGF -5** LGT LX	
—	LG LGK LGF -3** LGT LX		GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	LG LGK LGF -6** LGT LX	
—	LGF LG -33** LX		GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	LG LGK LGF -7** LGT LX	
Emergency cylinder	LG LGF- 4,45,45VF LX (Note 2)				



# LGF Lever handle locks

## LGF series (anti-friction latch bolt)

**Applications** Offices, main entrances, home entrances, etc.

- **V-LGF-5NU11S** (Photo shows a V18 cylinder, NU lever handle, dull stainless steel finish.) (\* An AXF knob type is also available.)



## Lever handle locks with anti-friction latch bolts that deliver superior security, durability, and operability

### Features

- Superior security, and excellent durability and operability
- The latch with an anti-friction latch bolt securely closes the door even when just a small force is applied to the closer.
- The steady brace inside the lock case allows the lock to be installed in an off-set position on the door.
- Various thumbturns are available.  
(Same as the LG thumbturns. Refer to P.5 for details.)
- Because the dimensions are the same as the LG lever handle locks, these can also be used as replacements for LG locks.

### Specifications (Door thickness: ## mm or more~less than ## mm)

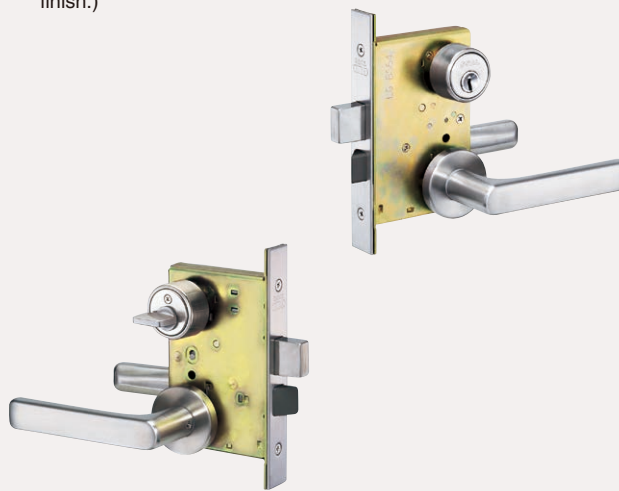
Model	<b>LGF-1, 3, 33, 4, 45, 45VF, 5, 6, 7</b> (Refer to P.32.)
Backset	64 mm, 76 mm
Door thicknesses (Contact GOAL for more information.)	29~33 / 33~43 / 43~53 mm
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Thumbturn	Standard type, BF type, TM type, TME type, TMB type (Refer to P.5.)
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Optional Universal Key System (UKS2) available)
Lever handle	Various types are available. (Refer to P.25~28.)
Escutcheon	R4U rose (standard) (Various escutcheon are also available as options. Refer to P.29 for details.)
Hand	Same for right and left, inside and outside

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

# LGT Lever handle-type earthquake-safe locks LGT series

**Applications** Earthquake safe doors at offices, main entrances, home entrances, etc.

- **V-LGT-5NU11S**  
(Photo shows a V18 cylinder, NU lever handle, dull stainless steel finish.)



## An earthquake-safe mechanism has been added to the LG lever handle locks.

### Features

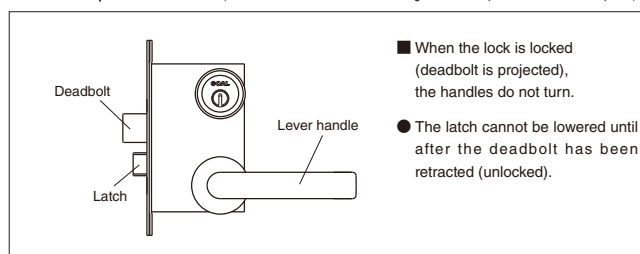
- When the lock is locked, the inside and outside handles are fixed and will not turn until the deadbolt is retracted. This prevents accidents in which an earthquake or other event traps the user in the room.
- Various thumbturns are available.  
(Same as the LG thumbturns. Refer to P.5 for details.)
- It is possible to easily check that the door is locked or unlocked by attempting to turn the handle.
- The excellent security performance is the same as the LG. (Refer to P.32 for details.)

### Specifications (Door thickness: ## mm or more~less than ## mm)

Model	<b>LGT-3, 5, 6, 7</b> (Refer to P.32.)
Backset	51 mm, 64 mm
Door thicknesses (Contact GOAL for more information.)	29~33 / 33~43 / 43~53 mm
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Thumbturn	Standard type, BF type, TM type, TME type, TMB type, TMK type (Refer to P.5 for details.)
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Optional Universal Key System (UKS2) available)
Lever handle	Various types are available. (Refer to P.25~28 for details.)
Escutcheon	R4U rose (standard) (Various escutcheon are also available as options. Refer to P.29 for details.)

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

- **LGT earthquake-safe function** (Prevents the deadbolt from becoming stuck under pressure on the strike plate.)



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## Applications Offices, main entrances, home entrances, etc.

### ● V-LX-5NU11S

(Photo shows a V18 cylinder, NU lever handle, dull stainless steel finish.)



### ● V-LX-5(ND)

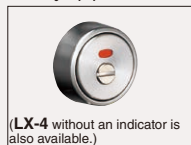
ND cylinder with indicator



(Can be used with a backset of 51 mm or more.)

### ● LX-45

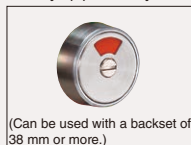
Emergency cylinder with indicator



(LX-4 without an indicator is also available.)

### ● LX-45VF

Emergency cylinder with large indicator



(Can be used with a backset of 38 mm or more.)

## Compact lever handle locks that deliver superior security, durability, and operability

### Features

- Superior security, and excellent durability and operability
- The thumbturn is an option. The available types include the BF type with superior operability, as well as the TM, TME, and TMB types that are highly resistant for thumbturns to being turned via a hole from outside the door. (Refer to P.5 for details.)
- The steady brace inside the lock case allows the lock to be installed in an off-set position on the door.

### Specifications (Door thickness: ## mm or more~less than ## mm)

Model	(Note 1) <b>LX-1, 3, 33, 4, 45, 45VF, 5, 6, 7</b> (Refer to P.32.)
Backset	(Note 2) 32 mm, 38 mm, 51 mm, 64 mm
Door thicknesses (Contact GOAL for more information.)	29~3~3 / 33~43 / 43~53 mm
Cylinder [symbol] (Note 3)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Thumbturn	Standard type, BF type, TM type, TME type, TMB type, others (Refer to P.5.)
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Optional Universal Key System (UKS2) available)
Lever handle	Various types are available. (Refer to P.25~28 for details.)
Escutcheon	(Note 2) R4U rose (standard) (Various escutcheon are also available as options. Refer to P.29 for details.)

Note 1: With LX-4, 45, and 45VF, the deadbolt throw is 16 mm. With other models, it is 21 mm.  
2: The R4U rose cannot be used with backset 32 mm. The K1U escutcheon is used instead. The deadbolt throw is also 16 mm.  
3: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

### Corresponding table (LH and door)

Lock handing	Illustration
R type	<div> <p>&lt;Right-hinged, out-swinging&gt; (Note) Lever mounting screw</p> <p>Inside Outside</p> </div> <div> <p>Or</p> <p>&lt;Left-hinged, in-swinging&gt; (Note) Lever mounting screw</p> <p>Inside Outside</p> </div>
L type	<div> <p>&lt;Left-hinged, out-swinging&gt; (Note) Lever mounting screw</p> <p>Inside Outside</p> </div> <div> <p>Or</p> <p>&lt;Right-hinged, in-swinging&gt; (Note) Lever mounting screw</p> <p>Inside Outside</p> </div>

## Applications Common entrances, service entrances, etc.

### ● LHL, LHB, LHS, LHT-7NU11S (R)

(Photo shows a LHB V18 cylinder, NU lever handle, R type for right-hinged out-swinging door.)

● Front with guard plate (LH No. 5 front) is also available.



## Locks automatically when the door is closed. Can be unlocked from outside the room with the key, and from inside the room simply by turning the handle.

### Features

- Four types (L, B, S, T) are available, each with different functions.
- The outside lever handle is always fixed.
- The door locks automatically when it is closed. (The latch fastens.)
- The key can be used to retract the latch and unlock the door from the outside.
- From inside the room, the door can be unlocked at any time by turning the handle.
- An LHL-S muffled type with little operating sound is also available.

### ⚠ Precautions:

Be aware that with LHL and LHL-S, in cases when the strike plate is not installed, the strike plate is incorrectly installed, or the correct strike plate is not used, then if the door is accidentally closed and the trigger bolt enters the frame hole or strike plate hole, it will not be possible to open the door.

### Explanation of LHT, LHL, LHB, LHS functions and operation

Model	Unlock hold function	Operation
LHL	Yes	● Once unlocked with the key, this lock is held in the unlocked state.
LHL-S (muffled type)	(Hold cancel when door is opened)	● When the door is opened, the unlock hold state is canceled and the lock returns to its original state.
LHB	Yes (Hold cancel by key)	● Once unlocked with the key, this lock is held in the unlocked state. ● The unlocked state is held until the key is turned and the latch is projected.
LHS	Yes (Hold and hold cancel by coin plug)	● With the latch pressed in, turn the coin plug on the front to hold the lock in the unlocked state. ● The lock is held in the unlocked state until the coin plug is returned to its original position.
LHT	No	● Open the door while the key is turned to the unlock position (latch is retracted).

### Specifications (Door thickness: ## mm or more~less than ## mm)

Model	<b>LHL-7, LHB-7, LHS-7, LHT-7, LHL-S-7</b>
Backset	51 mm, 64 mm
Door thicknesses (Contact GOAL for more information.)	33~43 / 43~53 mm
Gap (door and jamb)	6 mm or less
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Optional Universal Key System (UKS2) available)
Lever handle	Various types are available. (Refer to P.25~28 for details.)
Hand	R type (for right-hinged out-swinging or left-hinged in-swinging door), L type (for left-hinged out-swinging or right-hinged in-swinging door)

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.



**Applications** For offices, service entrances, common entrances, etc.

● **V-HL, HLT-5NU11S**

(Photo shows a V18 cylinder, NU lever handle, dull finish.)

\* The appearance of the HL and HLT is the same.



● **V-HLP, HLTP-7NU11S**

(Photo shows a V18 cylinder, NU lever handle, dull finish.)

\* The appearance of the HLP and HLTP is the same.



Precautions: 1. Be aware that with HLT and HLTP, the lock will remain unlocked unless the handle is turned and the latch is retracted.

2. HLP and HLTP have lock handing (R, L types). Be aware that the rose shape and the size of the door notch that is required for handle installation are different for HL and HLT.

**Features of the HL and HLP**

- Can be locked and unlocked using the key or thumbturn. (Normal lock/unlock function)
- The door locks when the door is closed after the thumbturn (or key) was turned in the lock direction. (Automatic locking function)
- HL is locked, the inside and outside handles are fixed.
- HLP inside handle can be operated at any time. The lock is equipped with an anti-panic function which allows the door to be unlocked and opened by turning the handle even when the lock is locked. (The lock from the door outside remains locked.)

**Features of the HLT and HLTP**

- Locks automatically when the door is closed.
  - It can be unlocked using the key or thumbturn.
- After unlocking using the key or thumbturn, when the handle is turned and the latch is withdrawn, the lock becomes ready for automatic locking again.
- HLT is locked, the inside and outside handles are fixed.
- \* The HLTP includes an anti-panic function and when it is locked, it can be unlocked and opened by turning the inside handle.

**Specifications (Door thickness: ## mm or more~less than ## mm)**

Model	HL, HLT-3,5,6,7	HLP-3, 5, 6, 7, HLTP-7 (anti-panic locks)
Backset	76 mm	
Door thicknesses (Contact GOAL for more information.)	29~33 / 33~43 / 43~53 mm	29~33 / 33~38 / 38~43 / 43~48 / 48~53 mm
Gap (door and jamb)	6 mm or less	
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]	
Thumbturn	Standard type only	
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Optional Universal Key System (UKS2) available)	
Lever handle	Various types are available. (Refer to P.25~28 for details.)	
Escutcheon	R4U rose (standard)	Special HLP, HLTP rose
Hand	Same for right and left, inside and outside	R type (for right-hinged out-swinging door or left-hinged in-swinging door) L type (for left-hinged out-swinging door or right-hinged in-swinging door)
Gap (door and jamb)	6 mm or less	

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

■ **Corresponding table(HLP, HLTP-7 and door)**

Lock handing	Illustration	
R type	<Right-hinged, out-swinging> 	<Left-hinged, in-swinging> 
	Or	
L type	<Left-hinged, out-swinging> 	<Right-hinged, in-swinging> 
	Or	

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Cylindrical  
locks

Rim dead  
locks

Dead locks  
Cremon  
locks  
Glass door  
locks

Emergency  
locks  
Cup handle  
locks

Sliding  
door locks

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locks

Dead locks  
Cremon  
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Glass door  
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Key switches  
Interlock /  
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# List of knobs (Knobs for integral locks (UC, G) and cylindrical locks (UH, US, ULW) are key-in-knob types.)

⚠ Precautions: Avoid using reinforced wood knobs outdoors. Also, be careful to avoid scratching brass knobs.  
(For the maintenance methods, refer to P.3.)

### B type

Dull stainless steel B11



Bright stainless steel B12



Dull brass B21 ⚠



Bright brass B22 ⚠



Reinforced wood BW51 ⚠  
(mortise locks only)



### Q type

Dull stainless steel Q11



Bright stainless steel Q12



Reinforced wood QW51 ⚠



Antique bronze Q51 ⚠



### Y type

Dull stainless steel Y11



### K type

Dull stainless steel K11



### S type

Dull stainless steel S11



Bright stainless steel S12



### ORB type

Bright stainless steel ORB12



### P type

Dull stainless steel P11



### E type

Dull stainless steel E11



### F type

Dull stainless steel F11



Reinforced wood FW51 ⚠



(AH, AS, HS, AXF mortise locks only)  
(EU series electric locks)

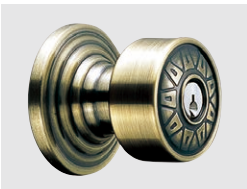
### Large rose

S10 type (100 mmφ), S9 type (90 mmφ)



(The large rose is for mortise  
locks and integral locks only.)

**CAP type** (antique locks only)  
Antique brass CAP71 ⚠



Antique bronze CAP51 ⚠



(\* 45 knobs are Q, K, E stainless steel  
types only.) With indicator (UC, G-45)



## List of mortise lock knob designs, finishes, roses, and escutcheons

Knob design	Material Finish	Stainless steel			Brass ⚠				Mizume cherry reinforced wood ⚠		Rose		Escutcheon (AH series only)
		Dull finish	Bright finish	Antique bronze	Dull finish	Bright finish	Antique brass	Antique bronze	Rose Antique bronze	Rose Dull stainless steel	Standard rose	Large rose (special specifications)	
Q type		Q11	Q12 *	Q51 *	—	—	—	—	QW51	QW	S2 type (75 mmφ)	S10 type (100 mmφ)	S1 type
Y type		Y11	—	—	—	—	—	—	YW51	YW			
K type		K11	—	—	—	—	—	—	KW51	KW			
B type		B11	B12 *	—	B21 *	B22 *	—	—	BW51 *	BW *	S8 type (75 mmφ)	S9 type (90 mmφ)	S1 type (With ORB, P, and S types, a ring is installed on the knob shaft.)
ORB type		ORB11	ORB12 *	—	—	—	—	—	—	—			
P type		P11	P12 *	—	—	—	—	—	—	—			
S type		S11	S12 *	—	—	—	—	—	SW51 *	SW *	N type (65 mmφ)	—	—
N type (G series)		N11	—	—	—	—	—	—	—	—			
E type (Note 2)		E11	—	—	—	—	—	—	—	—			
F type (Note 2)		F11	—	—	—	—	—	—	FW51 *	—	S5 type (65 mmφ)	—	—
CAP type (antique locks only)		—	—	—	—	—	CAP71	CAP51	—	—	Special rose (65 mmφ)	—	—

Note 1: \* indicates a special specification.

2: E type can be used with UC and US N (5-pin cylinder) and ULW, while F type can be used with US N (5-pin cylinder) and ULW.



## Applications Offices, storerooms, hotel guest rooms, main entrances, etc.

- Mortise locks **V-AH-5Q11S**
- Anti-panic locks **V-AHP-5Q11(R)**



- Office locks **V-AH-82, 84, 85**  
(Photo shows the inside side of the AH-85.) (Note)



Note: 85 uses a turn-button, while 82 and 84 use push-buttons.

- Hotel locks **V-AH-9Q11(R)**  
(Photo shows the outside side of the AH-9Q11(R).)



Precautions: Do not use with the deadbolt facing down. Doing so may result in operating failure.

## AH series high class mortise locks for superior security, durability, and operability

## Features

- Superior security and exceptional durability
- AH-82, 85 office locks can lock automatically.
- AHP anti-panic locks are also available.

When the deadbolt is projected, AHP anti-panic locks can be unlocked and opened by turning the inside knob.

- With AH-68, 8, 9, the outside knob is fixed and the door locks automatically when it is closed.

## Specifications (Door thickness: ## mm or more~less than ## mm)

Model	AH-1,3,5,6,68,7,8	AHP-5,7,AH-9	AH-82,84,85
Backset	76 mm, 100 mm		
Door thicknesses (Contact GOAL for more information.)	35~50 mm (When an escutcheon is not used) 35~38 / 38~43 / 43~48 / 48~53 mm (S1 escutcheon)	35~50 mm (AHP-5, 7) 36~48 mm (N9 escutcheon) (AH-9) 36~38 / 38~43 / 43~48 / 48~53 mm (S1 escutcheon) (AH-9)	35~37.5 / 37.5~42.5 / 42.5~47.5 / 47.5~50 mm
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]	Standard type, P type (R, L) (option)	Standard type, P type (R, L) (option)
Thumbturn			
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV other than AH-9: Key change systems are available as an option.)(GV: Universal Key System not supported)		
Knob	Q, Y, K, B, S, P, other types (Refer to P.36 for details.)		
Escutcheon	S2 rose (standard) (Large S10 rose and S1 escutcheon are also available as options.) (With AH-9, the S1 escutcheon or N9 escutcheon is used.)		
Hand	Same for right and left, inside and outside		

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

## Corresponding table (AHP, AH-9 and door)

Lock handing	Illustration
R type	<div> <div> <div>&lt;Left-hinged, in-swinging&gt;</div> <div>Inside</div> <div>Outside</div> </div> <div>Or</div> <div> <div>&lt;Right-hinged, out-swinging&gt;</div> <div>Inside</div> <div>Outside</div> </div> </div>
L type	<div> <div> <div>&lt;Right-hinged, in-swinging&gt;</div> <div>Inside</div> <div>Outside</div> </div> <div>Or</div> <div> <div>&lt;Left-hinged, out-swinging&gt;</div> <div>Inside</div> <div>Outside</div> </div> </div>

## List of AH, AXF, AS, AHP series mortise lock series models and applications

\* Various cylinders are available (GP, V18, GV, etc.).

When ordering, add the cylinder symbol (GP, V, GV, etc.) to the model, for example V-AH-5Q.

Compatible cylinders and cylinder symbols	Model (is the cylinder symbol.)	(Inside)	Illustration (Illustrations other than 45 show AH.)	(Outside)	Applications
—	AH-1* AXF-1* AS-1*	— Knob		— Knob	Partitions, etc.
—	AH-3* AXF-3* AS-3*	Thumbturn Knob		— Knob	Terrace doors, etc.
(emergency cylinder) (without indicator)	AXF-4* AS-4*	Thumbturn Knob		Emergency unlock device (emergency cylinder) (with indicator) Knob	Toilets, bedrooms, children's rooms, etc.
(emergency cylinder) (with indicator)	AXF-45* AXF-45VF* (large indicator) AS-45* AS-45VF* (large indicator) (* Not present on AH.)	Thumbturn Knob		Emergency unlock device (emergency cylinder) (with indicator) Knob	Toilets, bedrooms, children's rooms, etc.
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin) GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin) GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin) GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	AH-5* AXF-5* AS-5* AHP-5* (Anti-panic locks)	Thumbturn Knob		Cylinder Knob	Service entrances, offices, meeting rooms, home entrances, etc.
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin) GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	AH-6* AXF-6* AS-6*	Cylinder Knob		Cylinder Knob	Connecting doors, machine rooms, storerooms, etc.
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin) GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	AH-68* (Automatic locking locks)	Cylinder Knob		Cylinder Fixed knob	Connecting doors, machine rooms, storerooms, etc.
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin) GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	AH-7* AXF-7* AS-7* AHP-7* (Anti-panic locks)	— Knob		Cylinder Knob	Machine rooms, equipment rooms, inspection ports, storerooms, etc.
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin) GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	AH-8* (Automatic locking locks) (Anti-panic locks)	Thumbturn Knob		Cylinder Fixed knob	Machine rooms, storerooms, hotel guest rooms, etc.
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin) GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	(Office locks) AH-82* (Push-button) AH-84* (Push-button, automatic return) AH-85* (Turn-button)	Thumbturn Knob (button)		Cylinder Knob	Offices, etc.
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	AH-9* (Hotel locks) (Automatic locking locks) (Anti-panic locks)	Thumbturn Knob		Cylinder Fixed knob	Hotel guest rooms, etc.



# AXF Mortise locks

## AXF series

**Applications** Offices, main entrances, home entrances, etc.

● **V-AXF-5Q11S**  
(Photo shows a V18 cylinder, Q knob, and dull stainless steel finish.)



- **AXF-45**  
Emergency cylinder with indicator
- **AXF-45VF**  
Emergency cylinder with large indicator
- **ND cylinder**  
ND cylinder with indicator



**High class mortise locks with anti-friction latch bolts that deliver superior security, durability, and operability**

### Features

- Superior security, and excellent durability and operability
- The latch with an anti-friction latch bolt securely closes the door even when just a small force is applied to the closer.
- Because the lock body dimensions are the same as the LG and LGF lever handle locks, these can also be used as replacements for LG and LGF locks.  
(\* Be aware that the sizes of the notches are different for lever handles and knobs.)
- The thumbturn is an option. The available types include the BF type with superior operability, as well as the TM, TME, and TMK security thumbturns that are highly resistant to being turned via a hole from outside the door.



\* TMK and other security thumbturns are also available. (Refer to P.5 for details.)

### Specifications (Door thickness: ## mm or more~less than ## mm)

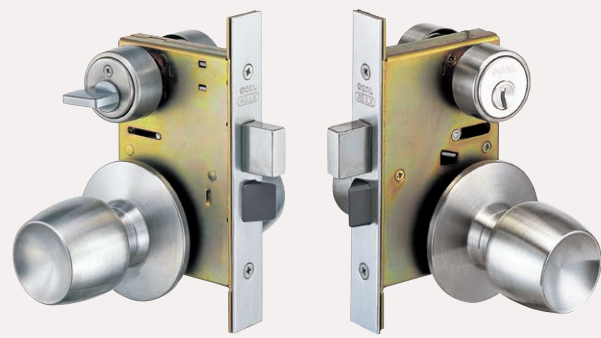
Model No.	1, 3, 33, 4, 45, 5, 6, 7	
Model	<b>AXF</b>	<b>AS</b>
Backset	64 mm, 76 mm	
Door thicknesses (Contact GOAL for more information.)	29~33 / 33~43 / 43~53 mm (However, when a P or S type or a cup handle is used, the minimum is 33 mm.)	29~33 / 33~43 / 43~53 mm
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]	
Thumbturn	Standard type, BF, TM, TME, TMB, TMK, other types	
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Optional Universal Key System (UKS2) available)	

# AS Mortise locks

## AS series

**Applications** Offices, main entrances, home entrances, etc.

● **V-AS-5Q11S**  
(Photo shows a V18 cylinder, Q knob, and dull stainless steel finish.)



- **AS-45**  
Emergency cylinder with indicator
- **AS-45VF**  
Emergency cylinder with large indicator
- **ND cylinder**  
ND cylinder with indicator



**High class mortise locks with superior security, durability, and operability**

### Features

- Superior security, and excellent durability and operability
- In the same way as for AXF, various thumbturns are available as options. (Refer to the AXF features at left.)

Knob	Q, Y, K, B, P, S types, etc. (Refer to P.36 for details.) (Cup handles can also be used. Refer to P.56 for details.)
Rose	S2 type (standard) (Large S10 rose is also available as an option. Refer to P.36.)
Hand	Same for right and left, inside and outside

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.



**Applications** Shared entrances, offices, service entrances, etc.

● **V-HS-5Q11S**

(Photo shows a V18 cylinder, Q knob, and dull stainless steel finish.)



**Precautions:** The appearance of the HSP, HST, and HSTP is the same as HS. The HSP and HSTP anti-panic locks have lock handing. Specify L type or R type according to the direction (hand) of the door.

**HS features**

- Can be locked and unlocked using the key or thumbturn.
- The door locks when the door is closed after the thumbturn (or key) was turned in the lock direction. (Automatic locking function)
- When the lock is locked, the inside and outside knobs are fixed.

**HSP (anti-panic locks) features**

- The HS series includes an anti-panic function.
  - The inside knob can be operated at all times, and even when the lock is locked, the door can be unlocked and opened by turning the knob.
- (When the lock was unlocked using the inside knob, the lock from the door outside remains locked.)

**HST (automatic locking locks), HSTP (anti-panic type automatic locking locks) features**

- Locks automatically when the door is closed.
- It can be unlocked using the key or thumbturn. After unlocking using the key or thumbturn, when the knob is turned and the latch is withdrawn, the lock becomes ready for automatic locking again.
- When the HST is locked, the inside and outside knobs are fixed.
- The HSTP is equipped with an anti-panic function which allows the door to be unlocked and opened by turning the inside knob even when the lock is locked.

**Corresponding table (HSP, HSTP and door)**

Lock handing	Illustration	
R type	<Right-hinged, out-swinging>	<Left-hinged, in-swinging>
	Inside Outside	Inside Outside
L type	<Left-hinged, out-swinging>	<Right-hinged, in-swinging>
	Inside Outside	Inside Outside

**Specifications (Door thickness: ## mm or more-less than ## mm)**

Model	HS, HST-3, 5, 6, 7*	HSP-3, 5, 6, 7*, HSTP-7*
Backset	76 mm	
Door thicknesses (Contact GOAL for more information.)	29~33 / 33~43 / 43~53 mm (However for a P or S type, the minimum is 33 mm.)	
Gap (door and jamb)	6 mm or less	
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]	
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Optional Universal Key System (UKS2) available)	
Knob	Q, Y, K, B, P, S types, etc. (Refer to P.36 for details.)	
Rose	S2 type (standard specifications)	
Hand	Same for right and left, inside and outside	R type (for right-hinged out-swinging door or left-hinged in-swinging door) L type (for left-hinged out-swinging door or right-hinged in-swinging door)

**Note:** Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

**HS, HSP, HST, HSTP series models and applications**

Compatible cylinders and cylinder symbols	Model	(Inside)	Illustration	(Outside)	Applications		
—	<b>HS HSP -3* HST</b>	Thumbturn		—	Terrace doors, etc.		
		Knob		Knob			
<b>GP</b> (GP)	<b>HS HSP -5* HST</b>	Thumbturn		Cylinder	Common entrances service entrances, offices, meeting rooms, etc.		
<b>V</b> (V18)		Knob		Knob			
<b>GV</b> (GV)							
<b>P</b> (6-pin)							
<b>Z</b> (7-pin)	<b>HS HSP -6* HST</b>	Cylinder		Cylinder	Common entrances offices, meeting rooms, etc.		
<b>V</b> (V18)		Knob		Knob			
<b>GV</b> (GV)							
<b>P</b> (6-pin)							
<b>Z</b> (7-pin)	<b>HS HSP -7* HST HSTP</b>	—		Cylinder	Common entrances office entrances, service entrances and storerooms, machine rooms, etc.		
<b>GP</b> (GP)		Knob		Knob			
<b>V</b> (V18)							
<b>GV</b> (GV)							
<b>P</b> (6-pin)		Knob		Knob			
<b>Z</b> (7-pin)							

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**Applications** Offices, reception rooms, etc.

- **P-UC-5Q11**  
(Photo shows a 6-pin cylinder, Q type knob, and dull stainless steel finish.)



- **P-UC-5Q11** (backset: 100 mm)  
(Photo shows a 6-pin cylinder, Q type knob, and dull stainless steel finish.)



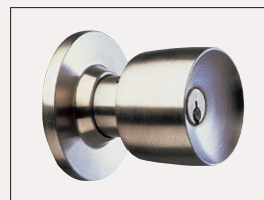
- **UC-45Q lock with indicator and emergency unlock device**  
(The knob shape is limited to the Q type [11S, 12S] shown in the photo and the K or E type [11S] finish.)



- **6-pin and 7-pin cylinders**  
(\* Q, Y, K, B type knobs. GP, V, and GV cylinders are also available for Q and B knobs.)



- **5-pin cylinders**  
**For [cylinder symbol: N]**  
(Knob is E type only in 5-pin cylinders.)



⚠ **Precautions:** Be aware that depending on the frame conditions, when the backset is 57 mm, there may be the risk of fingers being jammed when the knob is turned.

## Key-in-knob type locks equipped with deadbolts

**Features**

- Superior durability and smooth operation
- The direction (hand) can also be easily changed to prevent the cylinder from facing the wrong way.

**Specifications (Door thickness: ## mm or more~less than ## mm)**

Model	1, 3, 45, 5, 6, 7	
Backset	57 mm ⚠, 64 mm, 83 mm, 100 mm	
Door thicknesses (Contact GOAL for more information.)	25~33 / 33~43 / 43~53 mm	
Cylinder [symbol]	GP [GP], V18 [V], GV [GV]	6 pins [P], 7 pins [Z]
Knob	Q, B types	Q, Y, K, B types
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Universal Key System not supported)	

Note 1: The UC-45 knob type is limited to Q type (11S, 12S) and K, E types (11S) only.  
2: 5-pin cylinders are also supported. The knob is limited to E type only.  
3: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

**List of integral lock UC and G series models and applications**

\* Various cylinders including GP, V18, and GV are available.  
When ordering, add the cylinder symbol (GP, V, GV, etc.) to the model, for example V-UC-5Q11.

Compatible cylinders and cylinder symbols	Model	(Inside)	Illustration (The illustration shows UC with Q type knob.)	(Outside)
—	<b>UC-1*</b> <b>G-1*</b>	Knob		Knob
—	<b>UC-3*</b> <b>G-3*</b>	Knob (thumbturn)		Knob
Emergency unlock device (emergency cylinder) (with indicator)	<b>UC-45Q*</b> <b>G-45Q*</b>	Knob (thumbturn)		Knob (emergency unlock device)
<b>GP</b> (GP) <b>V18</b> (V) <b>GV</b> (GV) <b>P</b> (6-pin) <b>Z</b> (7-pin) <b>GP</b> (GP) <b>V18</b> (V) <b>GV</b> (GV) <b>P</b> (6-pin) <b>Z</b> (7-pin) <b>GP</b> (GP) <b>V18</b> (V) <b>GV</b> (GV) <b>P</b> (6-pin) <b>Z</b> (7-pin)	<b>UC-5*</b> <b>G-5*</b>	Knob (thumbturn)		Knob (cylinder)
<b>GP</b> (GP) <b>V18</b> (V) <b>GV</b> (GV) <b>P</b> (6-pin) <b>Z</b> (7-pin) <b>GP</b> (GP) <b>V18</b> (V) <b>GV</b> (GV) <b>P</b> (6-pin) <b>Z</b> (7-pin)	<b>UC-6*</b> <b>G-6*</b>	Knob (cylinder)		Knob (cylinder)
<b>GP</b> (GP) <b>V18</b> (V) <b>GV</b> (GV) <b>P</b> (6-pin) <b>Z</b> (7-pin)	<b>UC-7*</b> <b>G-7*</b>	Knob (There is no thumbturn.)		Knob (cylinder)



**Applications** Offices, reception rooms, etc.

● **P-G-5Q11**

(Photo shows a 6-pin cylinder, Q type knob, and dull stainless steel finish.)



## Extremely compact lock body

### The ideal integral locks for aluminum sash with a horizontal narrow frame.

#### Features

- Extremely compact lock body
- Smooth operation and superior durability
- The knob is fixed in place when locked.
- The direction (hand) can also be changed easily.

#### Specifications (Door thickness: ## mm or more~less than ## mm)

Model	1, 3, 45, 5, 6, 7	5
Backset	64 mm, 100 mm	
Knob	(Note 1) Q, Y, K, B types	E type N type
Cylinder [symbol]	(Note 2) GP [GP], V18 [V], GV [GV] (Note 3) 6 pins [P], 7 pins [Z]	5 pins [N] SP 5 pins [S]
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.)	MK and other key systems are not supported.
Door thicknesses (Contact GOAL for more information.)	25~33 / 33~43 / 43~53 / 53~63 mm	22~34 mm 30~42 mm

Note 1: The G-45 knob is limited to Q type (11S, 12S), and K type (11S) only.

2: Production of new master key plans for 5-pin, 6-pin and 7-pin cylinders discontinued as of March 2017.

3: Only Q11 and B11 knobs can be installed with GP, V18, and GV cylinders.

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**UH****Uni-Locks** (cylindrical locks)  
**UH series**

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**Applications** Offices, storerooms, etc.

- **P-UH-5Q11**  
(Photo shows a 6-pin cylinder, Q type knob, and dull stainless steel finish.)



- **P-UH-9Q(11) hotel lock**  
(Photo shows a 6-pin cylinder and Q type knob with backset 60 mm.)



- **P-UH-9B22**



- ⚠ **Precautions** 1. With a backset of 60 mm, there is the risk of fingers being jammed when the knob is turned.  
2. UH-5 cannot be locked with the key from the outside of the door.

**These are the highest grade of cylindrical locks. Certified under the U.S. UL fire resistance standard. Hotel locks are also available.**

**Features of the UH series**

- This product has been certified under the U.S. UL fire resistance standard. Has been proven to deliver superior fire resistant strength and durability. (Certified under the UL fire resistance standard in 1972.)
- Good operability. Can lock automatically for greater convenience.

**Features of the UH-9 (hotel locks)**

- The outside knob is fixed and locks automatically when the door is closed.
- Equipped with a shutout device that protects customer privacy.  
When the door is closed, the outside knob locks automatically. When the button on the inside is pressed, the lock is shut out and cannot be opened with the maid key or guest key.
- Equipped with a special hotel key system.
- Includes an indicator showing whether or not the room is occupied.  
When the lock is shut out from the inside, the indicator on the outside cylinder projects, indicating that the room is occupied.

**List of UH series cylindrical lock (6-pin, 7-pin cylinders) models and applications**

\* 6-pin cylinders and 7-pin cylinders are available. When ordering, add the cylinder symbol (P, Z) to the model, for example P-UH-5Q.

Compatible cylinders and cylinder symbols	Model (Note)	(Inside)	Illustration	(Outside)	Applications
—	<b>UH-1*</b>	Knob		Knob	Partitions, etc.
—	<b>UH-3*</b>	Knob (push-button)		Knob	Terrace doors, etc.
Emergency unlock device (emergency cylinder)	<b>UH-4*</b>	Knob (push-button)		Knob Emergency unlock device (emergency cylinder)	Toilets, restrooms, etc.
P (6-pin) Z (7-pin)	<b>UH-5*</b>	Knob (universal button)		Knob (cylinder)	Offices, meeting rooms, etc.

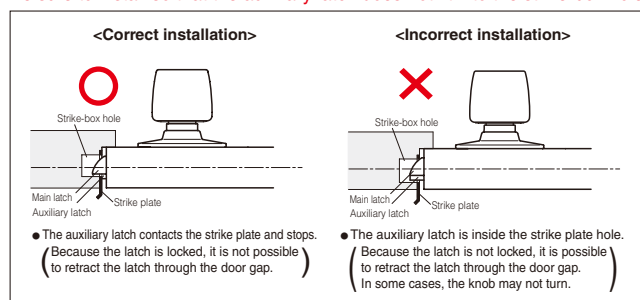
**Specifications (Door thickness: ## mm or more~## mm or less)**

Model	1, 3, 4, 5, 6, 7, 8	9
Backset	60 mm ▲ 70 mm, 89 mm, 127 mm	
Door thicknesses (Note 1)	30~34 / 34~50 / 50~60 mm	34~50 (extra thick 50~60 mm)
Gap (door and jamb)	6 mm or less	
Cylinder [symbol] (Note 2)	6 pins [P], 7 pins [Z]	
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.)	Special hotel key systems Various key systems are available.
Knob	Q, Y, K, B types (Refer to P.36 for details.)	
Hand	Same for right and left, inside and outside	

Note 1: For door thickness of 30~34 mm and 50~60 mm, special specifications are required. Please contact us.  
2: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

**<Precautions for installation>**

Be sure to install so that the auxiliary latch does not fit into the strike-box hole.



Note: \* indicates the knob design symbol (Q, Y, K, B, etc.).



**Applications** Offices, meeting rooms, reception rooms, toilets, etc.● **P-US-5Q11**(backset: 50 mm, 57 mm, 60 mm, 64 mm, 70 mm, 89 mm, 127 mm)  
(Photo shows a 6-pin cylinder, Q type knob, and dull stainless steel finish.)

⚠ With a backset of 60 mm or less, there is the risk of fingers being jammed when the knob is turned.  
US-5 cannot be locked with the key from the outside of the door.

## Standard Uni-Locks (cylindrical locks) with superior operability, durability, and ease of installation

### Features

- Good operability. Can lock automatically for greater convenience.

### Specifications (Door thickness: ## mm or more~## mm or less)

Backset ⚠	50 mm, 57 mm, 60 mm, 64 mm, 70 mm, 89 mm, 127 mm
Door thicknesses	25~30 / 30~45 / 45~60 mm
Gap (door and jamb)	6 mm or less
Knob design (Note 1)	Q, Y, K, B types (6-pin, 7-pin cylinders) E, F types (5-pin cylinders)
Cylinder [symbol] (Note 2)	6 pins [P], 7 pins [Z] (Q, Y, K, B type knobs) 5 pins cylinder [N] (E, F type knobs)
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.)

Note 1: A common body is used for the Q, Y, and K type knobs, but the B type knob body is only for the B type. (However, the body for model US-1 (passage latch) is the same for all knob types.)

2: Production of new master key plans for 5-pin, 6-pin and 7-pin cylinders discontinued as of March 2017.

- List of US series cylindrical lock (5-pin, 6-pin, 7-pin cylinders) models and applications  
5-pin, 6-pin, and 7-pin cylinders are available. When ordering, add the cylinder symbol (P, Z, N) to the model, for example P-UH-5Q.

Compatible cylinders and cylinder symbols	Model (Note)	Knob shape	(Inside)	Illustration	(Outside)	Applications
	<b>US-1*</b>	Q Y K B E F	Knob		Knob	Partitions, etc.
Emergency unlock device (emergency cylinder)	<b>US-4*</b>	Q Y K B E F	Knob (push-button)		Knob (emergency cylinder)	Toilets, restrooms, etc.
<b>P</b> (6-pin)	<b>US-5*</b>	Q Y K B E F	Knob (universal button)		Knob (emergency cylinder)	Offices, meeting rooms, etc.
<b>Z</b> (7-pin)						
<b>N</b> (5-pin)						
<b>P</b> (6-pin)	<b>US-6*</b>	Q Y K B E F	Knob (cylinder)		Knob (cylinder)	Connecting doors, passage doors, etc.
<b>Z</b> (7-pin)						
<b>N</b> (5-pin)						
<b>P</b> (6-pin)	<b>US-7*</b>	Q Y K B E F	Knob		Knob (cylinder)	Machine rooms, equipment rooms, inspection ports, storerooms, etc.
<b>Z</b> (7-pin)						
<b>N</b> (5-pin)						
<b>P</b> (6-pin)	<b>US-8*</b>	Q Y K B E F	Knob		Knob (fixed) (cylinder)	Storerooms, machine rooms, hotel guest rooms, etc.
<b>Z</b> (7-pin)						
<b>N</b> (5-pin)						

Note: \* indicates the knob design symbol (Q, Y, K, B, etc.).

**Applications** Offices, toilets, etc.● **ULW-5E11**(backset: 50 mm, 57 mm, 60 mm, 64 mm, 70 mm, 89 mm, 127 mm)  
(Photo shows wafer cylinder, E type knob, and dull stainless steel finish.)● **ULW-4EBL**(backset: 60 mm, 64 mm, 89 mm)  
(\* In an emergency, the lock can be removed from the outside of the door.)

⚠ With a backset of 60 mm or less, there is the risk of fingers being jammed when the knob is turned.  
ULW-5 cannot be locked with the key from the outside of the door.

## Popular Uni-Locks (cylindrical locks) with superior operability, durability, and ease of installation

### Features

- Perfect for in-room partitions and other light doors.
- Superior durability
- Special construction systems for in-room partition locks are also available.
- There is also a BL type <ULW-4, 49(E, F)BL> featuring mounting screws that are exposed on the outside of the room. In an emergency, the lock can be removed from the outside of the door.

### Specifications (Door thickness: ## mm or more~## mm or less)

Backset ⚠	50 mm, 57 mm, 60 mm, 64 mm, 70 mm, 89 mm, 127 mm
Door thicknesses	25~30 mm (for thin doors), 27~37 mm (for standard doors)
Gap (door and jamb)	6 mm or less
Knob design	E type, F type Note: F type knob for ULW has been discontinued.
Cylinder	Wafer cylinder (model ULW-5 only)
Key systems	MK, keyed alike, and other key systems are not supported.

\* In the case of the ULW-1, 4, 49(E, F)BL type, the available backsets are 60, 64, and 89 mm only, the 27~37 mm door thickness installation method is outside installation, and the latch is made of plastic.

- List of ULW series cylindrical lock models and applications

The ULW series cylinders are wafer cylinders only.

Model (Note 1)	(Inside)	Illustration	(Outside)	Applications
<b>ULW-1*</b>	Knob		Knob	Partitions, etc.
<b>ULW-1*BL</b> (Note 2)				
<b>ULW-4*</b>	Knob (push-button)		Knob (emergency cylinder)	Toilets, restrooms, etc.
<b>ULW-4*BL</b> (Note 2)	Knob (push-button)		Knob (emergency cylinder)	Toilets, restrooms, etc.
<b>ULW-49*</b> <b>ULW-49*BL</b>	During construction Knob (universal button)		Knob (cylinder)	Toilets, restrooms, etc.
	After completion Knob (universal button)		Knob (emergency cylinder)	
<b>ULW-5*</b>	Knob (universal button)		Knob (cylinder)	Meeting rooms, reception rooms, etc.

Note 1: \* indicates the knob design symbol E or F. When ordering, specify as, for example, ULW-5E.  
2: The latch and strike plate specifications are different for the BL type. For model ULW-49, the cylinder and key specifications are also different.

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# MH Rim dead locks

**Applications** Auxiliary locks for double-lock doors at entrances or back doors, etc.

- **V-MH-5 (364)**  
(Photo shows V18 cylinder, silver finish.)



**Rim dead locks with superior security and ease of installation**  
**Perfect as auxiliary locks for double-lock doors**

## Features

- The super-high security design uses hardened steel for the deadbolt and escutcheon, and a structure that integrates the escutcheon and screw posts.

This prevents all kinds of illegal unlocking methods including drilling, sawing, and twisting.

- Equipped with a device for preventing warpage of the door.

The warpage prevention device prevents the door from becoming warped when the lock is installed, even when the mounting screws are firmly tightened.

- The thumbturn is an option, and the TME and TMK security thumbturns prevent the thumbturn from being turned via a hole from outside the door. (Refer to P.5 for details.)



**Precautions:** The MH TME type security thumbturn is a thumbturn that includes a switch for changing to free-turning mode. Be aware that in normal mode, it does not have a TM function (function that prevents it from rotating under eccentric force).

## Specifications (Door thickness: ## mm or more~## mm or less)

Door thicknesses	30-50 / 50-70 mm
Cylinder [symbol]	V18 [V], GV [GV]
Thumbturn	Standard type, TME type (no TM function), TMK type (TME and TMK are options.)
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Key change system available) (GV: Optional Universal Key System (UKS2) available)
Hand	Same for right and left, inside and outside
Finish (symbol) (Note)	Silver (364), gold (269), black (883), umber (80)

When ordering, be sure to add the cylinder symbol to the model, for example V-MH-5(364).  
Note: The umber finish (80) is made-to-order.

# MDU MD Rim dead locks

**Applications** Auxiliary locks for entrances or back doors, inspection ports, etc.

- **V-MDU-5**  
(Photo shows MDU with V18 cylinder.)



- **S-MD-5**  
(Photo shows MD with SP cylinder.)

**Compact and easy to use, these are the perfect rim dead locks for use as auxiliary locks.**

## Features

- Can also be installed on flush doors.

A special mounting auxiliary plate is included in the set, allowing installation on flush doors and other doors where the screw holes can only be made close to the door end. Two types of strike plate (L type and flat type) are also included in the set, and can be selected according to the conditions of the door and frame.

- Same for both left- and right-hand doors.

## Specifications (Door thickness: ## mm or more~less than ## mm)

\* When ordering, be sure to add the cylinder symbol to the model, for example V-MDU-5.

Model	MDU-5	MD-5
Door thicknesses	Uses a 12 mm collar. ● 24-27 (cannot be used with wooden doors) / 27-34 / 34-41 mm (Uses a liner.) ● 30-36 / 36-43 / 43-50 mm (No liner)	Uses an embedded collar. ● 35-38 / 38-45 / 45-52 mm (Uses a liner.) ● 41-47 / 47-54 / 54-61 mm (No liner)
Cylinder [symbol] (Note)	V18 [V], GV [GV], GP [GP] 6 pins [P], 7 pins [Z]	SP 5 pins [S]
Thumbturn	Standard type	
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Universal Key System not supported)	MK and other key systems are not supported.
Hand	Same for right and left	
Remarks	MD-3 exit lock with no cylinder, and MDU-7 and MD-7 outside lock with no thumbturn are also available.	

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.



**Applications** Auxiliary locks for double-lock doors, doors that do not require knobs, etc.

- **V-LDK-5(11)** (hooked deadbolt)  
(Photo shows a V18 cylinder with dull stainless steel finish.)



## Dead locks with superior security, durability, and operability

### Features

- Includes a hooked deadbolt as a crowbar countermeasure.
- The thumbturn is an option. The available types include the BF type with superior operability, as well as the TM, TME, and TMB types that are highly resistant for thumbturn to being turned via a hole from outside the door. (Refer to P.5.)
- Perfect as auxiliary locks for double-lock doors.  
Use in combination with a PY push-pull passage latch or other lock. (Refer to P.24.)

### Specifications (Door thickness: ## mm or more~less than ## mm)

Model	<b>LDK-3, 5, 6, 7</b> (hooked deadbolts)
Backset	64 mm, 76 mm
Door thicknesses (Contact GOAL for more information.)	29~43 / 43~53 mm
Gap (door and jamb)	6 mm or less
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Thumbturn	Standard type, BF type, TM type, TME type, TMB type, TMK type (Refer to P.5.)
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Optional Universal Key System (UKS2) available)
Finish	In addition to the dull stainless steel (11) finish, silver (364), umber (80), gold (269), and alumite gold (23A) coatings and other finishes are available.

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

**Applications** Auxiliary locks for twin-lock doors, inspection ports, doors that do not require knobs, etc.

- **V-HD-5(11)**  
(Photo shows a V18 cylinder with dull stainless steel finish.)



- **HDFU** seal lock for storage rooms  
(backset: 64, 76 mm)



- **HD-45**  
Emergency cylinder with indicator



(LD-4 without an indicator is also available.)

- **HD-45VF**  
Emergency cylinder with large indicator



## Dead locks with superior security, durability, and operability, and a compact body

### Features

- Various backsets are available, and the 38 mm and 51 mm backsets can be installed even on vertical frames with a narrow aluminum sash.
- Various thumbturns are available. (Refer to P.5.)
- HDFU seal locks for storage rooms (backset 64, 76 mm) are also available.
- Emergency cylinders for HD-45 locks with indicators are also available.
- ND cylinders can also be used.

### Specifications (Door thickness: ## mm or more~less than ## mm)

Model	<b>HD-3, 33, 4, 45, 45VF, 5, 6, 7</b>	<b>HDFU-7</b> (seal locks)
Backset	38 mm, 51 mm, 64 mm, 76 mm	64 mm, 76 mm
Door thicknesses	29~43 / 43~53 mm	33~40 / 40~50 mm
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]	GP [GP], V18 [V], 6 pins [P], 7 pins [Z]
Thumbturn	Standard type, BF type, TM type, TME type, TMB type, TMK type (Refer to P.5.)	
Finish	Various types are available.	
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Optional Universal Key System (UKS2) available)	

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

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# 1502 Dead locks

## 1503 1502, 1503 series

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**Applications** Doors that do not require knobs, inspection ports, auxiliary locks, etc.

- **V-1502-5(11)** (backset: 25 mm)  
(Photo shows a V18 cylinder with dull stainless steel finish.)  
\* The model with 32 mm backset is 1503.



## Extremely compact dead lock Perfect for narrow vertical frames

### Features

- The 1502 and 1503 lock bodies are extremely compact.  
Extremely compact with 25 mm (1502) or 32 mm (1503) backset, making these locks perfect for glass doors and other doors with narrow vertical frames.
- Good operability and superior durability

### Specifications (Door thickness: ## mm or more~less than ## mm)

Model	1502	1503
Model No.	3, 5, 6, 7	
Backset	25 mm	32 mm
Door thicknesses <small>(Note 1)</small> <small>(Contact GOAL for more information.)</small>	25~38 / 38~48 / 48~58 mm	
Cylinder [symbol] <small>(Note 2)</small>	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]	
Thumbturn	Standard type only	
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) <b>(V18, GV: Optional key change system available)</b> <b>(GV: Universal Key System not supported)</b>	
Finish	Various types are available.	

Note 1: For door thickness of 25~28 mm, be sure to use a lock with a front width of 22.5 mm.  
Note 2: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

### List of dead lock LDK, HD, 1502/1503 series models

\* Various cylinders are available (GP, V18, GV, etc.). When ordering, add the cylinder symbol (GP, V, GV, etc.) to the model, for example V-HD-5.

Compatible cylinders and cylinder symbols	Model	(Inside)	Illustration	(Outside)
—	<b>LDK HD -3 1502/1503</b>	Thumbturn		—
(Emergency cylinder) Emergency unlock device	<b>4 HD -45 45VF</b>	Thumbturn		(Emergency unlock device) <b>(4: No indicator)</b> <b>(45: With indicator)</b> <b>(45VF: With large indicator)</b>
<b>GP</b> (GP cylinder) <b>V</b> (V18 cylinder) <b>GV</b> (GV cylinder)	<b>LDK HD -5 1502/1503</b>	Thumbturn		Cylinder
<b>P</b> (6-pin) <b>Z</b> (7-pin)				

Compatible cylinders and cylinder symbols	Model	(Inside)	Illustration	(Outside)
<b>GP</b> (GP cylinder) <b>V</b> (V18 cylinder) <b>GV</b> (GV cylinder) <b>P</b> (6-pin) <b>Z</b> (7-pin)	<b>LDK HD -6 1502/1503</b>	Cylinder		Cylinder
<b>GP</b> (GP cylinder) <b>V</b> (V18 cylinder) <b>GV</b> (GV cylinder) <b>P</b> (6-pin) <b>Z</b> (7-pin)	<b>LDK HD -7 1502/1503</b>	—		Cylinder
<b>GP</b> (GP cylinder) <b>V</b> (V18 cylinder) <b>P</b> (6-pin) <b>Z</b> (7-pin)	<b>HDFU -7 (seal lock)</b> (backset 64, 76 mm only)	—		Cylinder (with seal device)



# CGT Dead locks CGT series

**Applications** Doors that do not require knobs, etc.

- **V-CGT-5** (backset: 51 mm)  
(Photo shows a V18 cylinder with backset 51 mm.)



## Dead locks with small protrusion of the cylinder and thumbturn

### Features

- The small protrusion of the cylinder and thumbturn gives these locks an attractive, slim appearance.
- Superior security and durability
- The deadbolt projection length has been increased for a further improvement in strength.

The large deadbolt extension length of 25 mm allows it to withstand 10,000 N of pressing force or side pressure and the internal hardened pin also prevents cutting.

### Specifications (Door thickness: ## mm or more~less than ## mm)

Backset	51 mm
Door thicknesses (Contact GOAL for more information.)	35~38 / 38~45 / 45~55 / 55~65 / 65~75 mm (* For wooden doors, use a door thickness of 40 mm or more.)
Cylinder [symbol] (Note 1)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Thumbturn	Standard type only
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) Optional V18 and GV key change systems are available but require removal of the cylinder followed by key change operation. (Note that CNK options are not available for key change systems.) (GV: Universal Key System not supported)

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

### List of dead lock CGT, AHD, LXD series models

\* Various cylinders are available (GP, V18, GV, etc.). When ordering, add the cylinder symbol (GP, V, GV, etc.) to the model, for example V-CGT-5 (11).

Compatible cylinders and cylinder symbols	Model	(Inside)	Illustration	(Outside)
—	<b>CGT AHD - 3 LXD</b>	Thumbturn		—
Emergency cylinder (no indicator)	<b>LXD - 4</b>	Thumbturn		Emergency cylinder (emergency unlock device) (no indicator)
Emergency cylinder (with indicator)	<b>LXD - 45 45VF</b> (with large indicator for 45VF)	Thumbturn		Emergency cylinder (emergency unlock device) (with indicator)

# AHD Dead locks AHD series, LXD series

**Applications** Doors that do not require knobs, etc.

- **V-AHD-5(11)**  
(Photo shows V18 cylinder with dull stainless steel finish.)



- **V-LXD-5(11)**  
(Photo shows V18 cylinder with dull stainless steel finish.)



Precautions: Do not use an AHD with the deadbolt facing down. Doing so may result in operating failure.

## Dead locks with superior security and durability

### Features

- These are dead locks for AH mortise locks and LX lever handle locks.
- AHD is ideal for heavy doors.

### Specifications (Door thickness: ## mm or more~less than ## mm)

Model	AHD	LXD
Backset	76 mm, 100 mm	32 (Note 2), 38, 51, 64 mm
Door thicknesses (Contact GOAL for more information.)	35~50 mm	29~43, 43~53 mm
Cylinder [symbol] (Note 1)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]	
Thumbturn	Standard type, P type (R, L) option	Various types are available. (Refer to P.5.)
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: UKS2 not supported)	Various types are available. (Refer to P.5.) (GV: Optional UKS2 available)

Note 1: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.  
2: The backset for a 45VF emergency cylinder is 38 mm or more.

Compatible cylinders and cylinder symbols	Model	(Inside)	Illustration	(Outside)
<b>GP</b> (GP)	<b>CGT AHD - 5 LXD</b>	Thumbturn		Cylinder
<b>V</b> (V18)				
<b>GV</b> (GV)				
<b>P</b> (6-pin)				
<b>Z</b> (7-pin)	<b>CGT AHD - 6 LXD</b>	Cylinder		Cylinder
<b>GP</b> (GP)				
<b>V</b> (V18)				
<b>GV</b> (GV)				
<b>P</b> (6-pin)	<b>CGT AHD - 7 LXD</b>	—		Cylinder
<b>Z</b> (7-pin)				

\* LXD: 33 type and ND cylinders are also available.

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# AD

## Tubular dead locks AD series

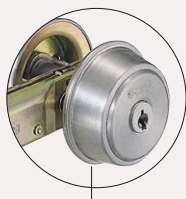
**Applications** Doors that do not require knobs, inspection ports, auxiliary locks for twin-lock doors, etc.

### • V-AD-5

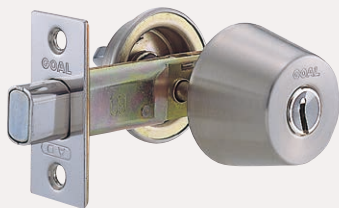
(Photo shows V18 cylinder with dull stainless steel finish.)



• AD-45 lock with indicator is also available.



• SP 5-pin cylinder S-AD-5



## Extremely compact tubular dead locks. Easy installation

### Features

- Extremely compact and easy installation
- Can also be installed on door with a narrow sash.







### Specifications (Door thickness: ## mm or more~less than ## mm)

Model	AD-3, 45, 5, 6, 7	S-AD-5
Backset	50, 60, 64, 70, 600 mm	50, 60, 64, 70 mm
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]	SP 5 pins [S]
Door thicknesses (Contact GOAL for more information.)	AD-3: 30-45 / 45-55 mm, AD-45 (TSD em. cyl.): 33-45 mm	22-27 / 27-45 / 45-55 mm
	P-AD-5, Z-AD-5 ..... 30-45 / 45-55 mm	
	P-AD-6, Z-AD-6 ..... 37-47 / 47-57 mm	
	P-AD-7, Z-AD-7 ..... 30-55 mm	
	GP, V, GV-AD-5, 7 ..... 30-43 / 43-53 mm	
Key systems	GP, V, GV-AD-6 ..... 30-40 / 40-50 mm	
	Various key systems available (MK, GMK, GGMMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Universal Key System not supported)	MK and other key systems are not supported.

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

### List of dead lock AD series models

\* Various cylinders are available (GP, V18, GV, etc.).  
When ordering, add the cylinder symbol (GP, V, GV, etc.) to the model, for example V-AD-5 (11).

Compatible cylinders and cylinder symbols	Model	(Inside)	Illustration	(Outside)
—	AD-3	Thumbturn		— (Dummy plate)
Emergency unlock device (emergency cylinder)	AD-45	Thumbturn	<small>TSD emergency cylinder</small> 	Emergency unlock device with indicator (emergency cylinder)
S (SP 5-pin)	S-AD-5	Thumbturn	S-AD-5 	Cylinder
GP (GP)	AD-5			
V (V18)				
GV (GV)				
P (6-pin)	AD-6	Cylinder		Cylinder
Z (7-pin)				
GP (GP)				
V (V18)				
GV (GV)	AD-7	— (Dummy plate)		Cylinder
P (6-pin)				
Z (7-pin)				
GP (GP)				

# HN

## Automatic locking dead locks HNL, HNB, HNS, HNT

**Applications** Common entrance, gates, inspection ports, etc. of apartment buildings, dormitories, etc.

### • V-HNS-5

(Photo shows a V18 cylinder and HNS with coin plug for holding the unlocked state.)



⚠ Precautions: With HNL, it is not possible to retract the trigger bolt using the key or thumbturn. If the trigger bolt enters the frame hole or strike plate hole, it will not be possible to open the door.

## Dead locks capable of automatic locking

### Features

- Locks automatically when the door is closed.  
Can be unlocked from the inside with the thumbturn or from the outside with a key.
- The compact size allows installation even in vertical frames with a narrow sash.
- Four types are available, each with different functions.
  - HNL:** Once unlocked, this lock is reliably held in the unlocked state. When the door is opened, the unlock hold state is canceled.
  - HNB:** Once unlocked, this lock is reliably held in the unlocked state. When the key (thumbturn) is turned in the direction opposite the unlock direction, the unlock hold state is canceled.
  - HNS:** The coin plug can be used to hold the door in unlocked state.
  - HNT:** This model does not have an unlock hold function.

### Specifications (Door thickness: ## mm or more~less than ## mm)

Backset	34 mm, 51 mm
Door thicknesses (Contact GOAL for more information.)	29-33 / 33-43 / 43-53 mm
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Key systems	Various key systems available (MK, GMK, GGMMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Optional Universal Key System (UKS2) available)
Hand	Same for right and left, inside and outside
Gap (door and jamb)	6 mm or less

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.



**Applications** Soundproof rooms, machine rooms, emergency exits, etc.

• **CMMW strike for double-leaf doors**



• **Thumbturn cover-type emergency device**  
(CM GH thumbturn emergency device H)



• **CMM AL detachable handle**

Handle detached

Handle attached



• **V-CMM-5** (backset: 64 mm)  
(Photo shows lock using a V18 cylinder.)



**Cremon locks allow doors to be closed and locked tightly. They are ideal as locks on large doors or doors that require soundproof or airtight performance.**

## Features

- Superior soundproof and airtight performance
- Large handle for excellent operability
- Includes a trigger bolt device to prevent an accidental or incorrect operation.
- Can be unlocked using the key or thumbturn.
- Handles are fixed when locked state.
- Installation of the upper and lower rods is easy.
- Detachable handles and fixed handles for double-leaf doors are also available.

## Specifications (Door thickness: ## mm or more~less than ## mm)

Model	CMM-1, 3, 5, 6, 7
Backset	64 mm
Door thicknesses (Contact GOAL for more information.)	29~33 / 33~43 / 43~53 mm (CMMAL detachable type: 33~38 / 38~43 / 43~48 / 48~53 mm)
Gap (door and jamb)	Door end: 9 mm or less, Door top and bottom: 10 mm or less
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Optional Universal Key System (UKS2) available)
Handle	Detachable and fixed handles are also available.
Lock rod	Lock rod (for top and bottom) length 1,200 mm (standard specifications)
Hand	Same for right and left, inside and outside
Strike plate	Standard strike plate, strike plate for double-leaf doors

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

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**AD**  
(B/S 600)

## Sliding (hanger) door locks AD (backset 600 mm)

**Applications** Sliding (hanger) doors, etc.

- **V-AD-5** (backset: 600 mm)  
(Photo shows lock using a V18 cylinder.)



### Features

- Tubular dead lock-type sliding (hanger) door locks that are super easy to install

### Specifications (Door thickness: ## mm or more-less than ## mm)

Backset	600 mm
Door thicknesses (Contact GOAL for more information.)	AD-3 ....30~45 / 45~55 mm AD-45 (TSD em. cyl.) ....33~45 mm GP, V, GV-AD-5.7 (GP, V18, GV) ....30~43 / 43~53 mm GP, V, GV-AD-6 (GP, V18, GV) ....30~40 / 40~50 mm P, Z-AD-5 (6 pins, 7 pins) ....30~45 / 45~55 mm P, Z-AD-6 (6 pins, 7 pins) ....37~47 / 47~57 mm P, Z-AD-7 (6 pins, 7 pins) ....30~55 mm
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Universal Key System not supported)

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

**TSA**

## Sliding (hanger) door locks TSA

**Applications** Sliding (hanger) doors, etc.

- **V-TSA-5** (backset: 29 mm)  
(Photo shows lock using a V18 cylinder.)

- **TSA L-type thumbturn**



- Collar used on the cylinder



- **TSA-7 dummy plate**



- **TSA-45 emergency cylinder**



### Features

- Compact sliding (hanger) door locks. These locks are compatible with different door thicknesses and are easy to install. They also come in a wide range of variations including large thumbturns.

### Specifications (Door thickness: ## mm or more-less than ## mm)

Backset	29 mm
Door thicknesses (Contact GOAL for more information.)	28~33 mm (using collars on both sides) (* Collar "28~33" stamp is visible.) 33~38 mm (using collars on both sides) (* Collar stamp is on reverse side and not visible.) 38~43 mm (no collar on either side)
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Universal Key System not supported)
Model	3, 3L, 33, 33L, 45, 45L, 45EK, 45LEK, 5, 5L, 6, 7
Slider head type	<ul style="list-style-type: none"> <li>• With M8 threaded hole</li> <li>• With M6 threaded hole</li> <li>• No slider head</li> </ul> (Be sure to specify one of the types.)

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

**KM**

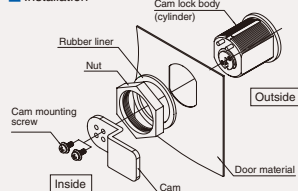
## Cam locks KM (no cover), KMC (with cover)

**Applications** Inspection ports, trunk rooms, etc.

- **V-KM(R)** (no cover)  
(Photo shows a V18 cylinder with No. 2 cam installed on right-hand side.)



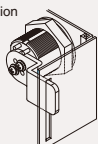
#### Installation



- **V-KMC(R)** (with cover)



#### Completed installation



### Features

- The cylinder is a pin cylinder that provides superior security and durability. It is also compatible with a variety of key systems.
- Prevents cases of forgetting to lock the door.  
The key can only be removed when the lock is locked, preventing cases of forgetting to lock the door.

### Specifications (Door thickness: ## mm or more-less than ## mm)

Cam type	No. 1 type: Length from center to cam end is 45 mm. No. 2 type: Length from center to cam end is 60 mm.
Cylinder [symbol] (Note 1)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Door thicknesses	1~10 mm
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (Optional V18 and GV key change systems are available but require removal of the cylinder followed by key change operation.) (Note that CNK options are not available for key change systems.) (GV: Universal Key System not supported)
Finish (code) (Note 2)	Dull stainless steel (11), bright stainless steel (12)

Note 1: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.  
2: With bright finish, the bright finish is applied only to the cover and a dull finish is applied to the cylinder.



# 2510 Glass door locks 2510 series

**Applications** Glass doors, sliding doors

- **V-2510-5** (backset: 25 mm)  
(Photo shows a V18 cylinder, model 5.)



Precautions: The strike plate is sold separately.

**These are special locks for glass doors and similar frame doors.**

## Features

- They are used installed on the top and bottom frames of the door.
- The cylinder and thumbturn can be installed and removed without removing the door.  
The cylinder can be installed and removed from the door end side.

## Specifications (Door thickness: ## mm or more~less than ## mm)

Backset	25 mm
Door thicknesses (Contact GOAL for more information.)	25~38 / 38~48 / 48~58 mm
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Universal Key System not supported)
Cylinder and thumbturn finish (symbol)	<ul style="list-style-type: none"> <li>• Dull stainless steel (11) (standard specification)</li> <li>• Bright stainless steel (12)</li> <li>• Umber coating (80)</li> <li>• Bright brass (22B)</li> </ul>

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

## List of 2510 and HDT series models and applications

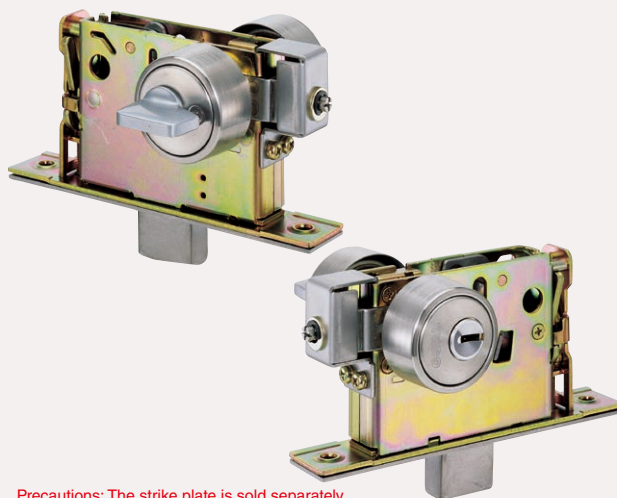
\* Various cylinders are available (GP, V18, GV, etc.). When ordering, add the cylinder symbol (GP, V, GV, etc.) to the model, for example V-2510-5 (11).

Compatible cylinders and cylinder symbols	Model	(Inside)	Illustration (2510)	Illustration (HDT)	(Outside)	Operation	Applications
—	<b>2510-3 HDT-3</b>	Thumbturn			—	<ul style="list-style-type: none"> <li>• Can be unlocked from the inside using the thumbturn.</li> <li>• Cannot be locked or unlocked from the outside.</li> </ul>	Reinforced glass doors in shops, offices, etc.
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	<b>2510-5 HDT-5</b>	Thumbturn			Cylinder	<ul style="list-style-type: none"> <li>• Can be locked and unlocked from the outside with the key and from the inside with the thumbturn.</li> </ul>	Reinforced glass doors in shops, offices, etc.
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	<b>2510-6 HDT-6</b>	Cylinder			Cylinder	<ul style="list-style-type: none"> <li>• Can be locked and unlocked from both the inside and outside using the key.</li> </ul>	Reinforced glass doors in shops, offices, etc.
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	<b>2510-7 HDT-7</b>	—			Cylinder	<ul style="list-style-type: none"> <li>• Can be locked and unlocked from the outside using the key.</li> <li>• Cannot be locked or unlocked from the inside.</li> </ul>	Reinforced glass doors in shops, offices, etc.

# HDT Glass door locks HDT series

**Applications** Glass doors, sliding doors

- **V-HDT-5**  
(Photo shows a V18 cylinder, model 5.)



Precautions: The strike plate is sold separately.

**These are special locks for glass doors and similar frame doors.**

## Features

- They are used installed on the top and bottom frames of the door.
- The cylinder and thumbturn can be installed and removed without removing the door.

## Specifications (Door thickness: ## mm or more~less than ## mm)

Backset	51 mm, 64 mm, 76 mm
Door thicknesses (Contact GOAL for more information.)	29~43 / 43~53 mm
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Universal Key System not supported)
Cylinder and thumbturn finish (symbol)	<ul style="list-style-type: none"> <li>• Dull stainless steel (11) (standard specification)</li> <li>• Bright stainless steel (12)</li> <li>• Umber coating (80)</li> <li>• Bright brass (22B)</li> </ul>

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

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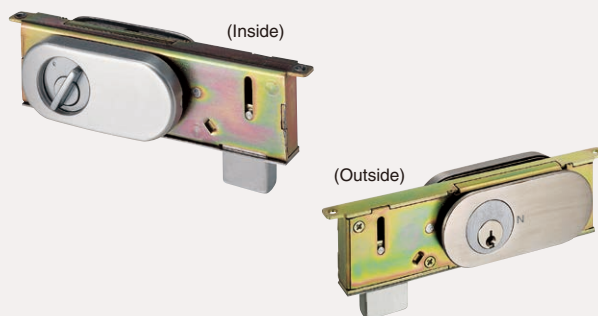
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- **P-BGU-5** (backset: 24 mm)  
(Photo shows a 6-pin cylinder, model 5.)



Precautions: The strike plate is sold separately.

**Special locks for glass doors that eliminate the problem of clear opening width. Ideal for automatic sliding doors.**

#### Features

- Ideal for automatic doors and other sliding doors. Can also be used with double sliding doors.
- The cylinder and thumbturn can be installed and removed without removing the door.

#### Specifications (Door thickness: ## mm or more~less than ## mm)

Model	<b>BGU-3, 5, 6, 7</b>
Backset	24 mm
Door thicknesses (Contact GOAL for more information.)	27~32 / 32~37 / 37~42 / 42~47 mm
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (Optional V18 and GV key change systems are available but require removal of the cylinder followed by key change operation. Note that CNK options are not available for key change systems. (GV: Universal Key System not supported))

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

#### Applications Glass sliding doors

- **V-CG-5** (backset: 51 mm, no bracket)  
(Photo shows a V18 cylinder, model 5, no bracket.)



- **V-CG-5** (backset: 51 mm, with bracket)  
(Photo shows a V18 cylinder, model 5, with bracket.)



Precautions: The strike plate is sold separately.

**Special locks for glass doors that eliminate the problem of clear opening width. Ideal for automatic sliding doors.**

#### Features

- Ideal for automatic doors and other sliding doors.
- The cylinder and thumbturn can be installed and removed without removing the door.
- Superior security and durability
- The deadbolt projection length has been increased for a further improvement in strength.
- An installation bracket is also provided.

#### Specifications (Door thickness: ## mm or more~less than ## mm)

Model	<b>CG-3, 5, 6, 7</b> (no bracket), <b>CG-3, 5, 6, 7</b> (with bracket)
Backset	51 mm
Door thicknesses (Contact GOAL for more information.)	35~38 / 38~45 / 45~55 / 55~65 / 65~75 mm
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (Optional V18 and GV key change systems are available but require removal of the cylinder followed by key change operation. Note that CNK options are not available for key change systems. (GV: Universal Key System not supported))
Bracket type (height from front)	No.3, No.1, No.2 (25 mm) (29 mm) (32 mm)
Strike plate	* Please order separately when required.

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

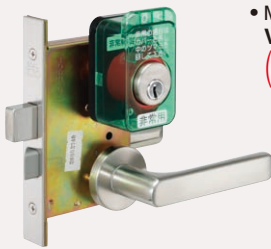


# Emergency locks

## Emergency locks with cylinder-type emergency unlock device LGH(A, B), ASH(A, B), HLTH(A, B), etc. (\* Use with a backset of 51 mm or more.)

### Applications Emergency exits, etc.

- Lever handle locks  
**V-LGH(A, B)-6NU**  
(Emergency device is R-hand type.)



- Mortise locks  
**V-ASH(A, B)-6Q**  
(Emergency device is R-hand type.)



- Hooked deadbolt locks for sliding doors  
**V-SXH(A, B)-6**  
(Emergency device is R-hand type.)



- Lever handle-type automatic locking locks  
**V-HLTH(A, B)-6NU**  
(Emergency device is L-hand type.)



- Mortise lock-type automatic locking lock  
**V-HSTH(A, B)-6Q**  
(Emergency device is L-hand type.)



- Dead lock-type automatic locking lock  
**V-HN(A, B)-6**  
(Emergency device is L-hand type.)



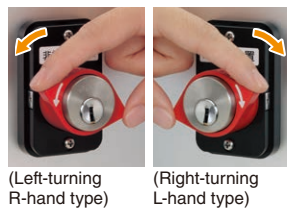
(A compact body model LH(A, B) is also available.)

( is the model symbol [L, B, S, T].)

**In an emergency, simply remove the cover and turn the knob to unlock the door without using the key.**

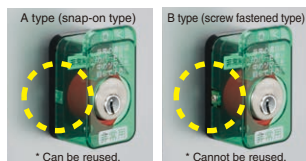
### Features

- In an emergency, the door can be unlocked even without the key simply by removing the cover and turning the red knob.



\* Be sure to lock (reset) with key or thumbturn after turning the red knob as it can not be reverted to original state by turning the red knob.

- There are two types: type A with a reusable cover, and type B with a cover that cannot be reused.



- There are products for different directions (hands). A left-turning R-hand type and a right-turning L-hand type are available. Select the type according to the type of lock used, the door direction, and other factors.

### Specifications (Door thickness: ## mm or more~less than ## mm)

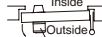
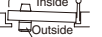
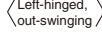
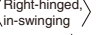
Compatible models (Note 1)	Backset	Door thicknesses
LG lever handle locks (Note 2)	51, 64, 76 mm	
LGK (hooked deadbolt) lever handle locks	64 mm	33-43 / 43-53 mm
LGF (anti-friction latch bolt) lever handle locks (Note 2)	64, 76 mm	
LX lever handle locks (Note 2)	51, 64 mm	
AXF, AS mortise locks (Note 2)		
AXFC, AXFCL cup handle locks (Note 2)	64, 76 mm	33-43 / 43-53 mm
ASC, ASCL (Note 2)		
LDK (hooked deadbolt) dead locks	64, 76 mm	
LXD dead locks (Note 2)	51, 64 mm	33-43 / 43-53 mm
HD dead locks (Note 2)	51, 64, 76 mm	
SX hooked deadbolt locks for sliding doors	51 mm	
HLT, HLTP lever handle-type automatic locking locks (Note 3)	76 mm	36-43 / 43-53 mm
LH (L, B, S, T) lever handle-type automatic locking locks (Note 3)	51, 64 mm	33-43 / 43-53 mm
HST mortise lock-type automatic locking lock (Note 3)	76 mm	36-43 / 43-53 mm
HSTC set handle-type automatic locking locks (Note 3)		
HN (L, B, S, T) dead lock-type automatic locking locks (Note 3)	51 mm	33-43 / 43-53 mm


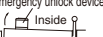
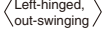
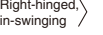
Note 1: GP, V18, GV, 6-pin, and 7-pin cylinders can be installed, allowing master key (MK) and other key systems to be used. However, GV cylinders do not support the Universal Key System. Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.  
 2: A cylinder-type emergency unlock device cannot be used with LG, LGF, LX, AXF, AXFC, AXFCL, AS, ASC, ASCL, LXD, and HD that have a deadbolt throw of 16 mm.  
 3: HLT, HLTP, LH, HST, HSTC, and HN automatic locking locks cannot be locked using a key or thumbturn. Locks automatically when the door is closed.

### Ordering cylinder-type emergency unlock devices

- When ordering a cylinder-type emergency unlock device as a set together with a lock, based on the "Door handing selection table" below, indicate the position where the emergency device will be installed (door outside or inside) and the door handing <R, L, UR, UL> according to the door hinge side and swinging direction.

### Door handing selection table

Door handing	Emergency unlock device installed on outside	
R	<div>⟨Right-hinged, out-swinging⟩  Emergency unlock device</div>	<div>⟨Left-hinged, in-swinging⟩  Emergency unlock device</div>
	<div>⟨Left-hinged, out-swinging⟩  Emergency unlock device</div>	<div>⟨Right-hinged, in-swinging⟩  Emergency unlock device</div>

Door handing	Emergency unlock device installed on inside	
UR	<div>⟨Right-hinged, out-swinging⟩  Emergency unlock device</div>	<div>⟨Left-hinged, in-swinging⟩  Emergency unlock device</div>
	<div>⟨Left-hinged, out-swinging⟩  Emergency unlock device</div>	<div>⟨Right-hinged, in-swinging⟩  Emergency unlock device</div>

### Specify the following information when ordering.

(Ex. 1) **V-LGHA-5 NU11S (64) R4U (R)**  
 NU lever handle, dull finish (backset 64 mm), R4U rose  
 Model No.: 5  
 Cylinder-type emergency unlock device, A type (snap-on type)  
 LG lever handle lock  
 V18 cylinder  
 Door handing: R

- When ordering a cylinder-type emergency unlock device as an individual part (Note 1), based on the "Emergency unlock device selection table" below, indicate the lock model which is used and whether the emergency unlock device is an R type or L type according to the door hinge position.

Note 1: These parts are available as individual parts without a cylinder and as set parts together with a cylinder.  
 2: Be aware that the R type and L type for the emergency unlock devices are different from the door handing shown in the table at left (R, L, UR, UL).

### Emergency unlock device handing selection table

Main lock model	Door hinge position	
	Hinged on right side	Hinged on left side
Lever handle locks: LGK, LGF, LG, LX, HL Mortise locks: AXF, AS, HS Cup handle locks: AXFC, ASC, HSC Dead locks: LDK, LD, HD, LXD Sliding door locks (hooked deadbolt): SX Electric locks: EM, SXE, ELM, ESM	R type (Note 2) (Emergency unlock device unlock operation: Rotate to left.)	L type (Note 2) (Emergency unlock device unlock operation: Rotate to right.)
<Automatic locking lock types> Automatic locking locks: LH (L, B, S, T) HLT, HST HN (L, B, S, T)	L type (Note 2) (Emergency unlock device unlock operation: Rotate to right.)	R type (Note 2) (Emergency unlock device unlock operation: Rotate to left.)
Electric locks: EUR, EUT EL/ES (R, T, B)		

### Specify the following information when ordering.

(Ex. 1) **V-HLT HB-5** Cylinder set (R)  
 HLT lever handle lock  
 Cylinder-type emergency unlock device, B type (screw fastened type)  
 Model No. 5 as set with cylinder  
 (Ex. 2) **HLT HA** Set without cylinder (L)  
 HLT lever handle lock  
 Cylinder-type emergency unlock device, A type (snap-on type) only (no cylinder)  
 Emergency unlock device, L type

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locks

Dead locks  
Cremon  
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Glass door  
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Emergency  
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Cup handle  
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Sliding  
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Electric locks  
Security systems

Ten-key  
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Key switches  
Interlock /  
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Hotel card  
locks

Electric  
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Electrical  
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# Emergency locks

## Emergency locks with emergency unlock device AHLH, AHH, HDH, HLTH, etc.

### Applications Emergency exits, etc.

Precautions: The emergency unlock device lever cannot be used to lock the door after emergency unlock. Be sure to lock using the key or thumbturn.

#### • V-AHLH-6NU lever handle locks



#### • V-HDH-6 dead locks



#### • V-AHH(No.1)-6Q mortise locks



#### • V-HLTH-6NU automatic locking locks



(\* V-HSTH-6Q for knob type.)

#### • V-AHDH-6 dead lock-type automatic locking locks



In an emergency, simply remove the cover and turn the lever to unlock the door without using the key.

### Features

- In an emergency, break and remove the cover, then turn the lever to unlock the door without the key.



(Photo shows a No. 1 type.)



(Photo shows an HDH.)



(AHLH and AHH No. 2 type emergency cover)

- For the AHLH and AHH emergency covers, a No. 1 type that must be broken, and a reusable No. 2 type that can be opened and closed are available.

### Specifications (Door thickness: ## mm or more-less than ## mm)

Compatible models (Note)	Backset (mm)	Door thicknesses (mm)	Model	Remarks
Lever handle locks AHLH	76, 100	35~42.5 / 42.5~50	5, 6, 7	• For the emergency covers, a PHH type and a PHH No. 2 type with an open/close type cover are available.
Mortise locks AHH	76, 100	35~50		
Dead locks HDH	38, 51, 64, 76	29~43 / 43~53		
Automatic locking locks HLTH (lever type) HSTH (knob type)	76	29~33 / 33~43 / 43~53		
Dead locks AHDH	76, 100	35~50		• The emergency device model is the PHDH emergency device.

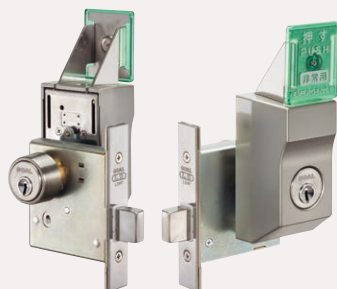
Note: GP, V18, GV, 6-pin, and 7-pin cylinders can be installed, allowing master key (MK) and other key systems to be used. However, AHDH with GV cylinder does not support the Universal Key System.  
Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

## Emergency locks

### Dead locks with emergency locks and one-touch emergency unlock device LDHPA

### Applications Emergency exits, etc.

#### • V-LDHPA-6(R) dead locks with one-touch emergency unlock device



<Can be unlocked simply by pressing the emergency cover (plate).>



### Features

- In an emergency, emergency unlock and door opening can be performed without the key simply by pressing the emergency cover (plate).

### Specifications (Door thickness: ## mm or more-less than ## mm)

Backset	64 mm
Door thicknesses (Contact GOAL for more information.)	33~43 / 43~53 mm
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Key system	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Universal Key System not supported)
Hand	R-hand, L-hand

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.



# Cover-type emergency device for knob or thumbturn

**Applications** Emergency exits, etc.

■ Cover-type emergency device for knob (US emergency device)



■ Cover-type emergency device for thumbturn (Note: Cannot be used with security thumbturns.)



Precautions 1. Can be used only for backset 51 mm or more and a standard-type thumbturn or BF/ES thumbturn.  
2. There are restrictions on door thickness.

**These cover-type emergency devices are installed onto a knob or thumbturn, and must be broken in order to use the knob or thumbturn.**

## Features

- Plastic cover that is installed onto a knob or thumbturn
- In an emergency, the user breaks the cover in order to use the knob or thumbturn inside to unlock the door.
- These devices can also be installed onto an existing lock.

## Specifications

■ Models compatible with cover-type emergency devices for knobs

- Integral locks: UC and G series ( $\phi$ /s 64 mm or more), Q, Y, K, B type knobs with  $\phi$  75 mm rose (Refer to P.40, 41.)
- Cylindrical locks: US series ( $\phi$ /s 64 mm or more), Q, Y, K, B type knobs with  $\phi$  75 mm rose (Refer to P.43.)

■ Models compatible with cover-type emergency devices for thumbturns

- Lever handle locks: LGK ( $\phi$ /s 64 mm) (Refer to P.32.)
- Lever handle locks: LG ( $\phi$ /s 51, 64, 76 mm) and LX ( $\phi$ /s 51, 64 mm) (Refer to P.32, 34.)
- Mortise locks: AXF, AS ( $\phi$ /s 64, 76 mm) (Refer to P.38.)
- Mortise locks: HS series ( $\phi$ /s 76 mm) (Refer to P.39.)
- Dead locks: HD ( $\phi$ /s 51, 64, 76 mm) (Refer to P.45.)
- Cremon locks: CMM series (Refer to P.49.)

Note: CMM can be used with door thicknesses of 29 mm or more. Other models can be used with door thicknesses of 34 mm or more.

**KT-2U**

(for steel doors)

(for feeding a fire hose through)

(for wooden doors)

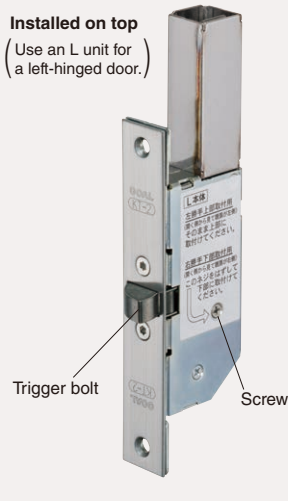
**KT-2U, KT-2U (No. 250), KT-2WU**

**automatic locking locks for auxiliary doors**

**Applications** Emergency exits, hospital emergency entrances/exits, department store service entrances, and other double-leaf doors

• KT-2U

Installed on top  
(Use an L unit for a left-hinged door.)



• KT-2WU

Installed on bottom  
(For a left-hinged door, remove the R unit screws before use.)



Precautions: 1. KT-2U (No. 250) has lock handing.  
2. The door open/close sequence is as follows.  
When opening: main door → auxiliary door.  
When closing: auxiliary door → main door.

## Automatic locking locks for emergency exit auxiliary doors

### Features

- When the main door is opened, the auxiliary door is automatically unlocked and opened following the main door.
- Because the top and bottom bolts are retracted automatically, there is no risk of scratching the floor or top frame.
- When the main door is closed, the auxiliary door locks automatically.
- Reversing-type bolts are used for the top and bottom bolts. They reverse instantaneously to ensure lock release.
- The gap can be adjusted.
- Can be easily adapted to right-hand and left-hand doors. (KT-2U, 2WU)
- Simple installation and removal for easy maintenance. The lock can be installed and removed without removing the door.

**Specifications (Door thickness: ## mm or more~less than ## mm)**

Model	KT-2U (for steel doors)	KT-2WU (for wooden doors)	KT-2U (No. 250)
Door thicknesses (Note)	35~60 mm	40~60 mm	35~60 mm
Gap (door and jamb)	6 mm or less (gap at trigger bolt)		
Bolt extension	19.5 mm~16 mm (1 mm gap) (6 mm gap) (Varies depending on gap at trigger bolt.)		
Hand	Left-hinged door (Main door opens to left when viewed from opened side.)	<ul style="list-style-type: none"><li>• Used on top: L unit</li><li>• Used on bottom: Remove R unit screws before use.</li></ul>	L type (for left-hinged door)
	Right-hinged door (Main door opens to right when viewed from opened side.)	<ul style="list-style-type: none"><li>• Used on top: R unit</li><li>• Used on bottom: Remove L unit screws before use.</li></ul>	R type (for right-hinged door)
Case depth	49 mm		

Note: When the door thickness is 60 mm or more, it is necessary to install the lock unit off-set.

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Key switches  
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emergency  
door  
systems

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locks

Electric  
locks

Electrical  
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Control  
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## Applications Storerooms, gymnasiums, shutters, side doors, trunk rooms, etc.

## • V-AHC-5

(Photo shows an AHC, V18 cylinder,  
model AHC-5 with backset 76 mm.)

## • V-ASC-5



## • V-AXFC-5

Cup handles for  
preventing finger  
jamming are also  
available.  
(CL cup handles)• V-HSC-5 (backset: 76 mm)  
(Photo shows an HSC,  
V18 cylinder, model HSC-5.)

⚠ Precautions: Do not use an AHC with the deadbolt facing down.

## Cup handle locks for AH, AXF, AS, and HS mortise locks, and for automatic locking HST

## Specifications (Door thickness: ## mm or more-less than ## mm)

Model	AHC, AHCL	AXFC, AXFCL	ASC, ASCL	HSC, HSTC (automatic locking locks)
Backset	76 mm, 100 mm	64 mm, 76 mm	64 mm, 76 mm	76 mm
Door thicknesses (Contact GOAL for more information.)	35~43 / 43~50 mm	33~43 / 43~53 mm	(Cup handle on both sides) 31~33 / 33~38 / 38~43 / 43~48 / 48~53 mm (Cup handle on one side) 31~33 / 33~43 / 43~53 mm	33~43 / 43~53 mm
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]			
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: UKS2 not supported) (GV: Optional Universal Key System (UKS2) available)			
Knobs	Q, Y, K, S, B, P types, etc.			
Model	1, 3, 5, 6, 7	1, 3, 4, 45, 5, 6, 7		3, 5, 6, 7

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

## List of AHC, AHCL, AXFC, AXFCL, ASC, ASCL, HSC, HSTC series models

When ordering, add the cylinder symbol (GP, V, GV, etc.) to the model, for example V-AHC-5 or V-AHC-5B.

Compatible cylinders and cylinder symbols	Model	Illustration (Cup handle on both sides)	Illustration (Cup handle on one side) (Note 1, 2)
—	AHC, AHCL AXFC, AXFCL -1 ASC, ASCL (Cup handle on both sides) * One side: -1*	Inside Outside	Inside Outside
	AHC, AHCL AXFC, AXFCL -3 ASC, ASCL HSC, HSTC (Cup handle on both sides) * One side: -3*	Inside Outside	Inside Outside
	(Emergency) cylinder (no indicator)	AXFC, AXFCL ASC, ASCL (Cup handle on both sides) * One side: -4*	Inside Outside
	(Emergency) cylinder (with indicator) (45VF emergency cylinders with large indicators are also available.)	AXFC, AXFCL ASC, ASCL (Cup handle on both sides) * One side: -45*	Inside Outside
Compatible cylinders and cylinder symbols	Model	Illustration (Cup handle on both sides)	Illustration (Cup handle on one side) (Note 1, 2)
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	AHC, AHCL AXFC, AXFCL -5 ASC, ASCL HSC, HSTC (Cup handle on both sides) * One side: -5*	Inside Outside	Inside Outside
	AHC, AHCL AXFC, AXFCL -6 ASC, ASCL HSC, HSTC (Cup handle on both sides) * One side: -6*	Inside Outside	Inside Outside
	AHC, AHCL AXFC, AXFCL -7 ASC, ASCL HSC, HSTC (Cup handle on both sides) * One side: -7*	Inside Outside	Inside Outside
Cup handle		• AHC, cup handle on both sides (For AHC, AXFC, HSC, HSTC) • UCC, cup handle on both sides (for ASC)	• AHC, cup handle on one side (For AHC, AXFC, HSC, HSTC) • UCC, cup handle on one side (for ASC)

Note 1: \* indicates the knob design (Q, Y, K, S, B, etc.) for cup handle on one side.

2: With standard specifications when there is a cup handle on one side, the cup handle is on the outside. Please indicate your request if you would like the cup handle on the inside.



**Applications** Fire doors, shutters, side doors, partitions, etc.

• **UCC-1**

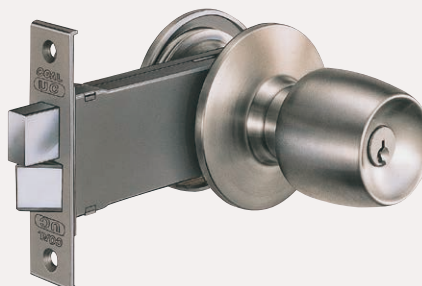
(Photo shows cup handles on both sides, model UCC-1 with <sup>B</sup>/s 64 mm.)

\* A knob on one side type is also available.



• **P-UCC-7Q**

(Photo shows knob on one side, 6-pin cylinder, model UCC-7 with <sup>B</sup>/s 100 mm.)



• **GC-1**

(Photo shows cup handles on both sides, model GC-1, <sup>B</sup>/s 64 mm.)

\* A knob on one side type is also available.



**Integral locks UC and G series cup handle locks providing simple installation and excellent operability UCC (backset 100 mm) and GC are compact and can be installed on door with a horizontal narrow frame.**

**UCC specifications (Door thickness: ## mm or more-less than ## mm)**

Backset	57 mm, 64 mm, 83 mm, 100 mm (100 mm is for door with a horizontal narrow frame.)
Door thicknesses (Contact GOAL for more information.)	Cup handle on both sides: 29 (28 for 100 mm)~33 / 33~38 / 38~43 / 43~48 / 48~53 mm Cup handle on one side: 29 (28 for 100 mm)~33 / 33~43 / 43~53 mm
Cylinder (with knob on one side)	(Note) GP, V18, GV cylinders (Q and B type knobs only) 6-pins, 7-pins (Q, Y, K, B type knobs) 5-pins cylinder (E type knobs)
Key system	Various key systems are available (MK, GMK, GGMK, RMK, CNK, etc.). (V18, GV: Optional key change system available) (GV: Universal Key System not supported)

Note: Production of new master key plans for 5-pin, 6-pin, and 7-pin cylinders discontinued as of March 2017.

**List of UCC series models**

When ordering, add the cylinder symbol (GP, V, GV, etc.) to the model, for example V-UCC-7Q.

Compatible cylinders and cylinder symbols	Model (Note 1)	Illustration (Cup handle on both sides)	Illustration (Cup handle on one side)
	<b>UCC-1</b> (Cup handle on both sides)		
	<b>UCC-1*</b> (Cup handle on one side)		
	<b>UCC-3*</b> (Cup handle on one side)		
<b>GP</b> (GP) <b>V</b> (V18) <b>GV</b> (GV) <b>P</b> (6-pin) <b>Z</b> (7-pin) <b>N</b> (5-pin)	<b>UCC-7*</b> (Cup handle on one side)		
Cup handle		UCC, cup handle on both sides (for UCC) 	UCC, cup handle on one side (for UCC) 

Note 1: \* indicates the knob design (Q, Y, K, B, E) for cup handle on one side.

**GC specifications (Door thickness: ## mm or more-less than ## mm)**

Backset	64 mm, 100 mm
Door thicknesses (Contact GOAL for more information.)	Cup handle on both sides: 28~33 / 33~38 / 38~43 / 43~48 / 48~53 mm Cup handle on one side: 28~33 / 33~43 / 43~53 mm
Cylinder (with knob on one side)	(Note) GP, V18, GV cylinders (Q and B type knobs only) 6-pins, 7-pins (Q, Y, K, B type knobs) 5-pins cylinder (E type knobs) SP 5-pins cylinder (N type knobs) (MK and other key systems are not supported.)
Key system	Various key systems are available (MK, GMK, GGMK, RMK, CNK, etc.). (V18, GV: Optional key change system available) (GV: Universal Key System not supported)

Note: Production of new master key plans for 5-pin, 6-pin, and 7-pin cylinders discontinued as of March 2017.

**List of GC series models**

When ordering, add the cylinder symbol (GP, V, GV, etc.) to the model, for example V-GC-7Q.

Compatible cylinders and cylinder symbols	Model (Note 1)	Illustration (Cup handle on both sides)	Illustration (Cup handle on one side)
	<b>GC-1</b> (Cup handle on both sides)		
	<b>GC-1*</b> (Cup handle on one side)		
	<b>GC-3*</b> (Cup handle on one side)		
<b>GP</b> (GP) <b>V</b> (V18) <b>GV</b> (GV) <b>P</b> (6-pin) <b>Z</b> (7-pin) <b>N</b> (5-pin)	<b>GC-7*</b> (Cup handle on one side)		
Cup handle		UCC, cup handle on both sides (for GC) 	UCC, cup handle on one side (for GC) 

Note 1: \* indicates the knob design (Q, Y, K, B, E) for cup handle on one side.

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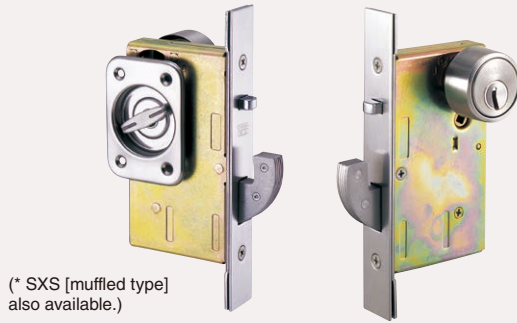


SX

# Sliding door lock (hooked deadbolt) SX, SXS series

## Applications Sliding doors

- **V-SX-5** (backset: 51 mm) (Photo shows a V18 cylinder, cup thumbturn (PSS thumbturn))



(\* SXS [muffled type] also available.)

- **LX** thumbturn



- **FL** thumbturn



- **FL (No. 2)** thumbturn



- Emergency unlock device with indicator (PSS emergency cylinder)



- **LX** emergency unlock device with indicator (LX-45 emergency cylinder) (LX-45VF emergency cylinder) (GV: Optional Universal Key System (UKS2) available)



## Hook bolt sliding door lock with superior security, operability, and durability

### Specifications (Door thickness: ## mm or more~less than ## mm)

Backset	SX ... 51 mm	SXS (muffled type) ... 51 / 76 mm
Door thicknesses	See table below	
Gap (door and jamb)	5 mm or less (strike plate with gap adjustment plate)	
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]	
Key system	Various keying systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Optional Universal Key System (UKS2) available)	

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

### SX, SXS series models and door thicknesses

\* Various cylinders are available (GP, V18, GV, etc.). When ordering, include the cylinder symbol (GP, V, GV, etc.) with the model, such as V-SX-5.

Compatible cylinders and cylinder symbols	Model (Note 2, 3)	Inside thumbturn model	Outside cylinder model	Door thicknesses (Note 1) (Contact GOAL for more information.)
—	<b>SX,SXS-3</b>	Cup thumbturn (PSS thumbturn)	—	33–53 mm (Wooden doors: 36–53 mm)
	<b>SX, SXS-3</b> (LX thumbturn) <b>-3FL</b> (No. 2)	LX thumbturn FL (No. 2) thumbturn	—	29–43 / 43–53 mm (Same for wooden doors)
	<b>SX,SXS-3FL</b>	FL thumbturn	—	29–35 / 35–41 / 41–47 / 47–53 mm (Wooden doors: 36–53 mm)
(PSS-45 Emergency cylinder)	<b>SX,SXS-45</b>	Cup thumbturn (PSS thumbturn)	PSS-45 emergency cylinder	33–35 / 35–41 / 41–47 / 47–53 mm (Wooden doors: 36–41 / 41–47 / 47–53 mm)
	<b>SX, SXS-45</b> (LX thumbturn) <b>-45FL</b> (No. 2)	LX thumbturn FL (No. 2) thumbturn	—	33–43 / 43–53 mm (Wooden doors: 36–43 / 43–53 mm)
	<b>SX,SXS-45FL</b>	FL thumbturn	—	29–35 / 35–41 / 41–47 / 47–53 mm (Wooden doors: 36–41 / 41–47 / 47–53 mm)
(LX-45 Emergency cylinder)	<b>SX, SXS-45</b> (LX thumbturn) <b>-45FL</b> (No. 2)	LX thumbturn FL (No. 2) thumbturn	LX-45 emergency cylinder	33–43 / 43–53 mm (Wooden doors: 36–43 / 43–53 mm)
	<b>SX, SXS-45FL</b> (LX emergency cylinder)	FL thumbturn	—	29–43 / 43–53 mm (Wooden doors: 36–43 / 43–53 mm)
	<b>SX,SXS-5</b>	Cup thumbturn (PSS thumbturn)	Cylinder (GP, V, GV, P, Z)	33–43 / 43–53 mm (Wooden doors: 36–43 / 43–53 mm)
GP, V, GV, P, Z	<b>SX, SXS-5</b> (LX thumbturn) <b>-5FL</b> (No. 2)	LX thumbturn FL (No. 2) thumbturn	—	29–43 / 43–53 mm (Same for wooden doors)
	<b>SX,SXS-5FL</b>	FL thumbturn	—	29–43 / 43–53 mm (Wooden doors: 36–43 / 43–53 mm)
	<b>SX,SXS-6</b>	(Cylinder on inside also)	Cylinder (GP, V, GV, P, Z)	29–43 / 43–53 mm (Same for wooden doors)
GP, V, GV, P, Z	<b>SX,SXS-7</b>	—	Cylinder (GP, V, GV, P, Z)	29–43 / 43–53 mm (Same for wooden doors)

Note 1: For wooden doors, note the strength of the door's screw mounting areas to ensure the mounting screws for cup thumbturns (PSS thumbturns), FL thumbturns, PSS-45 emergency cylinders, and similar devices will be secure.

2: For SX models, the 33 type (double thumbturn) is also available.

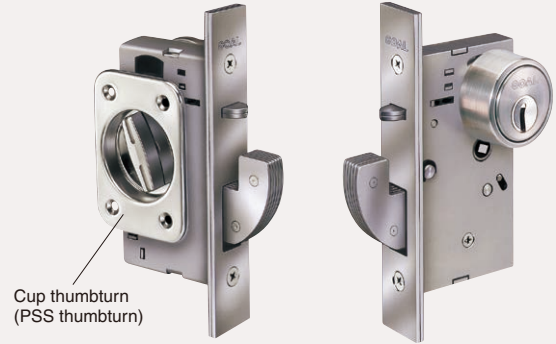
3: ND cylinders are also available.

PSS

# Sliding door lock (hooked deadbolt) PSS series

## Applications Sliding doors

- **V-PSS-5** (backset: 38 mm) (Photo shows a V18 cylinder, cup thumbturn (PSS thumbturn))



Cup thumbturn (PSS thumbturn)

- **PSD** thumbturn



- **FL** thumbturn



- Emergency unlock device with indicator (PSS emergency cylinder)



## Hook bolt sliding door lock with superior security, operability, and durability

### Specifications (Door thickness: ## mm or more~less than ## mm)

Backset	38 mm
Door thicknesses	See table below
Gap (door and jamb)	5 mm or less (strike plate with gap adjustment plate)
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Key system	Various keying systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Universal Key System not supported)

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

### PSS series models and door thicknesses

\* Various cylinders are available (GP, V18, GV, etc.). When ordering, include the cylinder symbol (GP, V, GV, etc.) with the model, such as V-PSS-5.

Compatible cylinders and cylinder symbols	Model	Inside thumbturn model	Outside cylinder model	Door thicknesses (Note 2) (Contact GOAL for more information.)
—	<b>PSS-3</b>	Cup thumbturn (PSS thumbturn)	—	33–58 mm (Same for wooden doors)
	<b>PSS-3 (PSD thumbturn)</b>	PSD thumbturn	—	25–38 / 38–48 / 48–58 mm (Same for wooden doors) (Note 1)
	<b>PSS-3FL</b>	FL thumbturn	—	29–53 mm (Wooden doors: 33–53 mm)
(PSS-45 Emergency cylinder)	<b>PSS-45</b>	Cup thumbturn (PSS thumbturn)	PSS-45 emergency cylinder	33–35 / 35–41 / 41–47 / 47–53 mm (Same for wooden doors)
	<b>PSS-45 (PSD thumbturn)</b>	PSD thumbturn	—	29–38 / 38–48 / 48–53 mm (Wooden doors: 31–38 / 38–48 / 48–53 mm)
	<b>PSS-45FL</b>	FL thumbturn	—	29–35 / 35–41 / 41–47 / 47–53 mm (Wooden doors: 33–35 / 35–41 / 41–47 / 47–53 mm)
GP, V, GV, P, Z	<b>PSS-5</b>	Cup thumbturn (PSS thumbturn)	Cylinder (GP, V, GV, P, Z)	33–38 / 38–48 / 48–58 mm (Same for wooden doors)
	<b>PSS-5 (PSD thumbturn)</b>	PSD thumbturn	—	25–38 / 38–48 / 48–58 mm (Same for wooden doors) (Note 1)
	<b>PSS-5FL</b>	FL thumbturn	—	29–38 / 38–48 / 48–53 mm (Wooden doors: 33–38 / 38–48 / 48–53 mm)
GP, V, GV, P, Z	<b>PSS-6</b>	(Cylinder on inside also)	Cylinder (GP, V, GV, P, Z)	25–38 / 38–48 / 48–58 mm (Same for wooden doors) (Note 1)
GP, V, GV, P, Z	<b>PSS-7</b>	—	Cylinder (GP, V, GV, P, Z)	25–38 / 38–48 / 48–58 mm (Same for wooden doors)

Note 1: Mounting is possible if the door thickness in the cylinder mounting part or PSD thumbturn part is 25 mm or more, but the front part of the lock (25.5 mm wide) can be mounted only on doors with a thickness of 28 mm or more.

2: For wooden doors, note the strength of the door's screw mounting areas to ensure the mounting screws for cup thumbturns (PSS thumbturns), FL thumbturns, PSS-45 emergency cylinders, and similar devices will be secure.



# SAK Automatic locking lock for sliding doors SAK

**Applications** Apartment bicycle and automobile parking lots, etc.

- **V-SAK-5** (backset: 51 mm)  
(Photo shows a V18 cylinder, model SAK-5)



## Automatic locking lock for Sliding door (hooked deadbolt)

### Features

- Can be locked automatically when the door is closed. No locking operation is required, and sliding doors do not bounce upon closing.
- Includes trigger bolt (safety device).
- The strike plate is equipped with adjustable device.
- Available with a No. 1 strike plate that can be used for hanger doors without guide rails.

### Specifications (Door thickness: ## mm or more-less than ## mm)

Backset	51 mm
Door thicknesses (Contact GOAL for more information.)	33-43 / 43-53 mm
Gap (door and jamb)	2.5 mm or less
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Key system	Various keying systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Optional Universal Key System (UKS2) available)
Mounting position margin	Vertical: ±6 mm (Strike plate adjustment: Up to ±3 mm)
Tolerance	Along door thickness: ±3 mm (standard strike plate) (No. 1 strike plate adjustment: ±8.5 mm)

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

### SAK, SN series models and applications

\* Various cylinders are available (GP, V18, GV, etc.). When ordering, include the cylinder symbol (GP, V, GV, etc.) with the model, such as V-SAK-5.

Compatible cylinders and cylinder symbols	Model	(Inside)	Illustration	(Outside)
—	<b>SAK SN -3</b>	Thumbturn		—
<b>GP</b> (GP)	<b>SAK SN -5</b>	Thumbturn		Cylinder
<b>V</b> (V18)				
<b>GV</b> (GV)				
<b>P</b> (6-pin)				
<b>Z</b> (7-pin)				

# SN Sliding door lock (hooked deadbolt) SN series

**Applications** Sliding doors

- **V-SN-5** (backset: 25 mm)  
(Photo shows a V18 cylinder, model SN-5)



## Extremely compact Sliding door lock (hooked deadbolt)

### Features

- Robust dead bolt (hook bolt) design with sturdy cylinder installation.
- Compact 25 mm backset for mounting on narrow vertical frames.
- SN-45 (with indicator) model also available.

### Specifications (Door thickness: ## mm or more-less than ## mm)

Backset	25 mm
Door thicknesses (Contact GOAL for more information.)	SN-3, 5, 6, 7 ... 29-43 / 43-53 mm
Gap (door and jamb)	2 mm or less
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Key system	Various keying systems available (MK, GMK, GGMK, CNK, etc.) (Optional V18 and GV key change systems are available but require removal of the cylinder followed by key change operation. Note that CNK options are not available for key change systems. (GV: Universal Key System not supported)

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

Compatible cylinders and cylinder symbols	Model	(Inside)	Illustration	(Outside)
<b>GP</b> (GP)	<b>SAK SN -6</b>	Cylinders		Cylinder
<b>V</b> (V18)				
<b>GV</b> (GV)				
<b>P</b> (6-pin)				
<b>Z</b> (7-pin)	<b>SAK SN -7</b>	—		Cylinder
<b>GP</b> (GP)				
<b>V</b> (V18)				
<b>GV</b> (GV)				
<b>P</b> (6-pin)				
<b>Z</b> (7-pin)				

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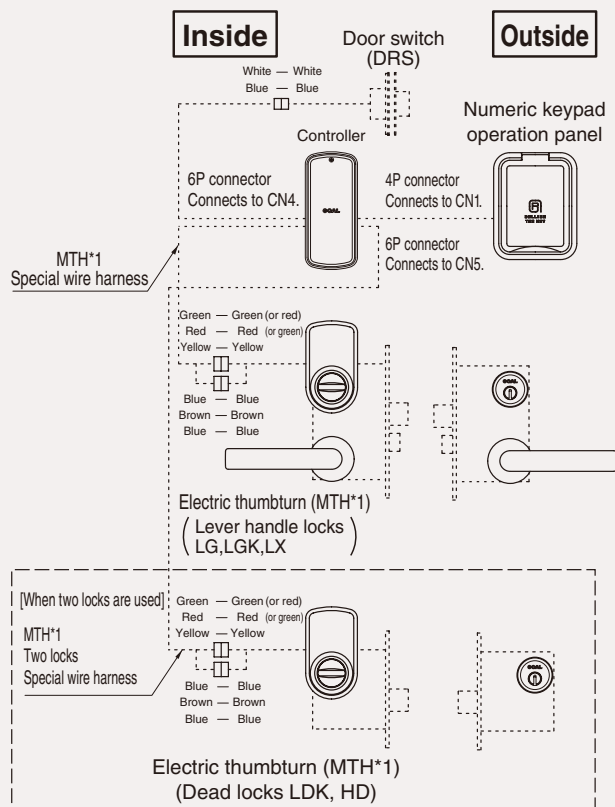
Electrical  
conductors,  
Control  
boxes

Dimensions



## Applications Building service entrances, confidential rooms, home entrances, etc.

## ● Basic configuration diagram



## ● Installation example (Photo shows use of an electric thumbturn with a PLK push-pull lock.)



## Battery powered rolling numeric keypad system

## Features

- Because these products are battery powered, electrical wiring work is unnecessary and they can be easily installed on existing doors.
- They can also sound an alarm in case of an attempt to pry open the lock. (Activated in the mode settings.)
- Includes a low battery warning function.  
When the dry-cell batteries are nearly depleted, "LO" is displayed when the numeric keypad is operated.  
**Note: When the batteries are dead, it is not possible to operate the lock from the outside without the key.**

## Specifications (Door thickness: ## mm or more-less than ## mm)

## ■ Numeric keypad operation panel (rolling keypad): Outside of door

Waterproof performance	Equivalent to JIS IPX4
Durability performance (LCD)	Can be used without problems even after one million or more finger operations.
Finish	Silver (material: heat-resistant ABS)

## ■ Controller: Inside of door

Power supply	Four AA alkaline dry-cell batteries
Working temperature range	0~40°C (Must be no freezing.)
Working humidity range	85% or less (Must be no condensation.)
Battery lifetime	One year or more (* When used 10 times per day. Lock → unlock operation = 1 use.)
Automatic locking function	Can be set ON/OFF using a switch.
Finish	Silver (material: heat-resistant ABS)

## ■ Electric thumbturn

Type	BTKLX
Electric thumbturn model (rated voltage)	MTH*1 (LX) (5 V DC)
Electric thumbturn handing	R type (for right-hinged out-swinging or left-hinged in-swinging door), L type (for left-hinged out-swinging or right-hinged in-swinging door)
Ordinary locks used	<ul style="list-style-type: none"> <li>Push-pull locks PL, PLK</li> <li>Lever handle locks LG, LGK, LX</li> <li>Dead locks LDK, HD</li> </ul>
Backset	64 mm
Cylinder [symbol](Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Door thicknesses	PL, PLK: 35~38 / 38~43 / 43~45 mm LG, LGK, LX, LDK, HD: 35~43 / 43~45 mm
Gap (door and jamb)	6 mm or less

**Note:** Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.



# KS

## Key switches KS-3K, 3R, 3F

**Applications** Security at apartment building entrances, common entrances, and building service entrances

### ● Key switches KS-3K, 3R, 3F

<Installation example>



Can be used to unlock the electric lock at a common entrance (open the automatic door).

### Features

- Because a reverse master key system is installed at the key switch, the room keys for each apartment can unlock the automatic electric lock (open the automatic door).

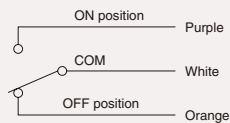
### Specifications

#### ■ KS series model specifications and applications

Model	KS-3K	KS-3R	KS-3F
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]		6 pins [P], 7 pins [Z]
Operation	<ul style="list-style-type: none"> <li>The key can only be removed in the OFF position.</li> </ul>	<ul style="list-style-type: none"> <li>The key can only be removed in the OFF position.</li> <li>Includes an automatic reset device.</li> </ul>	<ul style="list-style-type: none"> <li>The key can be removed in both the ON and OFF positions.</li> </ul>
Switch capacity (current)	30 V DC, 1 A (maximum current 3 A)		
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Key change system not supported)		Key systems other than keyed alike systems are not possible.
Applications	Elevators, etc.	Automatic doors, etc. (Automatic locking system for common entrances)	Alarms, etc.

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

#### ■ KS-3K, 3R, 3F circuit diagram



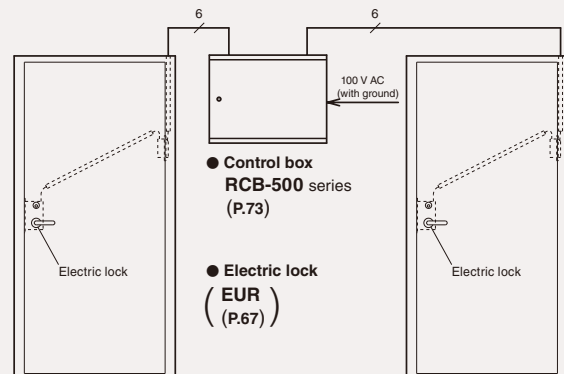
The diagram shows the conditions when OFF.

Interlock door  
Emergency door  
system

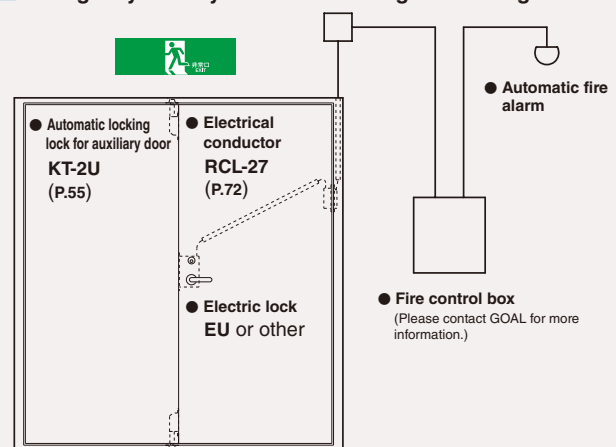
## Interlock door system Emergency door system

**Applications** Emergency exits, hospitals, research laboratories, sterile rooms

### ■ Interlock door system: Basic configuration diagram



### ■ Emergency door system: Basic configuration diagram



### Features of an interlock door system

- When both doors are closed, both locks are unlocked state. Then opening one of the doors will automatically lock the other one.
- Can also be used with a variety of other systems.
- The EUR series of electric locks is available.
- Use an RCB-500 series control box. (Refer to P.73 for details.)

⚠ Precautions: Be aware that if both doors are opened at exactly the same time, both doors will open.

### Features of an emergency door system

- It is linked with the smoke detectors and in the event of an emergency, the emergency door electric locks are unlocked automatically.
- In addition to electric locks, a variety of other emergency locks can be used. (Refer to P.53~55.)

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Dead locks  
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locks  
Glass door  
locks

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locks  
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locks

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door locks

▼ Electric locks  
Security systems

Ten-key  
pads

Key switches  
Interlock /  
emergency  
door  
systems

Hotel card  
locks

Electric  
locks

Electrical  
conductors,  
Control  
boxes

Dimensions



## Applications Urban hotels, resort hotels, dormitories, training centers, recreation facilities



## Card specifications

&lt;For JCLM, JCLM2 non-contact IC card locks&gt;

## ■ Guest cards

Rewritable cards (plastic)

&lt;Hotel Ryumeikan Tokyo&gt;



## ■ Management cards (plastic) (master cards, maid cards, etc.)



\* A gray finish is also available.

**These card lock systems improve security, increase the efficiency of key management, and allow for system expansion.**

## Features of the card lock systems JCLM, JCLM2

## ■ Features of the JCLM and JCLM2 non-contact IC card systems include the following.

These systems use non-contact IC cards with improved operability and durability.

## ■ A valid period can be set for the cards in advance.

The card locks contain an IC with clock function that checks the card valid period (use start time to use end time). (The valid period can be set as needed up to 23:59 on December 31, 2079.)

## ■ Cards can be issued in advance.

Because the valid period can be set for the cards ahead of time, it is possible to issue cards in advance.

## ■ A variety of cards can be issued to meet a diverse range of usage styles.

- Issue of pay-by-the-hour cards (The valid period can be set in units of 1 minute.)
- Issue of additional guest cards (The same card that was issued for the guest arriving first can be issued for additional members of the party arriving later. The cards each have different serial numbers and a maximum of 99 cards can be issued.)
- Re-issue of lost cards for shared rooms (This is an optional function when there is an on-line connection with the host computer.)
- Multiple rooms can be selected. (Four patterns can be selected for the same card: one room, two rooms, three rooms, and consecutive room numbers starting from one room.)
- Various other cards can be issued for other applications.

\* Be sure to inquire before ordering.

## ■ Rewritable cards that can be reused are also available.

## ■ Improve safety and security while increasing the efficiency of key management.

Non-contact IC cards can contain an immense amount of information, and safety is protected with an advanced encryption process. If a card is lost while it is still valid, after a new card is issued and used, the lost card is automatically invalidated and cannot be used. This provides safe and fast support for lost cards and for residents moving in and out. It is also possible to check the card lock use history.

## ■ Dry-cell batteries are used as the power source. The batteries can be changed easily and the system is equipped with a low battery warning function.

Because dry-cell batteries (four AA alkaline dry-cell batteries) are used for the card lock power supply, no wiring work is required. Batteries can be changed easily by removing the escutcheon cover on the inside of the door. When the batteries are running low, an LED flashes alternately green/red to notify the user when the maid card or other management card is used.



## ■ Can be expanded with systems for common entrance management, energy savings, and various other purposes.

Can be expanded with after-hours entrance security management and room occupancy check systems, room energy-saving management systems, and elevator management systems.



## Applications

Urban hotels, resort hotels, dormitories, research facilities, recreation facilities

(Precautions: There are different types for different directions (hands). Specify R type or L type according to the door direction (hand)).

## ● V-JCLM-ZU 21B(R) (NW)

(\* Splash-proof specifications are also available.)

(Photo shows a V18 cylinder, ZU lever handle, R-hand type, escutcheon on both sides.)



Appearance on inside with escutcheon on one side (NS)  
(There is no escutcheon.)



## ● V-JCLM2-ORIU 11S(R)

(\* Splash-proof specifications are also available.) (For in-swinging door)

(Photo shows a V18 cylinder, ORIU handle, R-hand type.)

(\* JCLM2 has escutcheon on both sides.)



## Non-contact IC card locks that can unlock the door just by holding the card over the reader

## Features

- The door can be unlocked easily by holding the card over the reader.

Because it is a non-contact IC card system, durability is higher and there is no concern about reduction due to wear, intrusion of foreign substances, or similar mechanical problems. There is also no risk of magnets damaging the data as there is with magnetic cards, allowing dependable use.

- These systems use "Mifare" non-contact IC cards.  
These non-contact IC card locks use "Mifare" cards that are widely used around the world.

- The compact lock body (backset 70 mm) is ideal for renovations.

- Locks automatically when the door is closed.  
(Automatic locking type)

- Equipped with an anti-panic function.  
The door can be unlocked and opened from inside the room by turning the handle.

- Unlock is indicated by a green LED lamp.

- An easy-to-operate infrared system is used for data input and reading.

- Equipped with a lockout function that protects customer privacy.  
When the thumbturn on the inside of the door is turned and locked, the door is double-locked (locked out) and cannot be unlocked using the maid key.

- In an emergency, the door can be unlocked using a key.

- Equipped with a trigger bolt to prevent illegal unlocking.

- An anti-friction type latch ensures that the door closes securely.

- Dry-cell batteries are used as the power source. As a result, wiring work is not required.  
Dry-cell batteries (four AA alkaline dry-cell batteries) are used for the power supply.

- Includes an advance battery warning function.  
The battery lifetime is around 1.5 years when the lock is used 15 times per day. The battery warning flashes an LED lamp when the maid card or other management card is used.

\* Be sure to inquire before ordering.

- Splash-proof specifications are available for JCLM.

(Option) (Not available for JCLM2.)

Splash-proof specifications allow reliable use even when rain contacts the outside of the door (corridor side).

- No. 2 type thumbturns are available for JCLM.

(Escutcheon on both sides only) (option)

(JCLM2 is only available No.2 type thumbturn.)



## Specifications (Door thickness: ## mm or more-less than ## mm)

## Lock body

Model and escutcheon specifications	● JCLM (NW): Escutcheon on both sides ● JCLM (NS): Escutcheon on one side ● JCLM2: Escutcheon on both sides (for in-swinging doors only)
Backset	70 mm (lock case depth 105 mm)
Door thicknesses (Contact GOAL for more information.) (Note 1)	JCLM: 33~43 / 43~53 mm JCLM (splash-proof specifications): 31.5~41.5 / 41.5~51.5 mm JCLM2 (no splash-proof specifications): 36~43 / 43~53 mm
Gap (door and jamb)	6 mm or less
Cylinder [symbol] (Note 2)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available)
Hand	R type, L type (Refer to table below.)
Lever handles	ZU, PRCU, other types (Refer to P.65, 66 for details.)
Thumbturn	JCLM: Standard type (with luminescent material), No. 2 type (no luminescent material) JCLM2: Standard type (no luminescent material)
Power supply	Four AA alkaline dry-cell batteries (Lifetime is around 1.5 years when used 15 times each day.)

Note 1: Splash-proof specifications are available for JCLM, however the door thickness specifications are different.  
2: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

## Card reader

Reading method	Non-contact IC cards (Mifare)
Working temperature range	0~40°C (Humidity 85% RH or less. Must be no freezing or condensation.)

## Corresponding table (JCLM, JCLM2 and door)

Lock handing	Illustration	
	In-swinging door	Out-swinging door
R type	<Left-hinged, in-swinging door> 	<Right-hinged, out-swinging door> 
	<Right-hinged, in-swinging door> 	<Left-hinged, out-swinging door> 
L type	<Left-hinged, in-swinging door> 	<Right-hinged, out-swinging door> 
	<Right-hinged, in-swinging door> 	<Left-hinged, out-swinging door> 

\* JCLM2 are for in-swinging doors only. Special specifications are required for out-swinging doors.

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Mortise  
locks

Integral  
locks  
Cylindrical  
locks

Rim dead  
locks

Dead locks  
Cremon  
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Glass door  
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Emergency  
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Dimensions



## ● Card issuing systems

## &lt;Manual issuing type&gt;

- Cards can be issued using just the interface unit. (Non-contact only)



It is not necessary  
to prepare a PC.

Interface unit  
CE-IFU-202

- When printing on the card is necessary, this unit is used in combination with a card encoder (reader-writer).



Interface  
unit  
CE-IFU-202

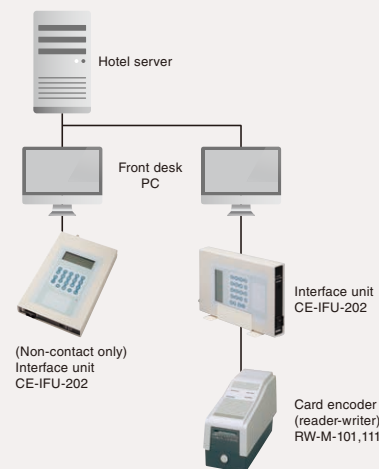


Card encoder  
(reader-writer)  
RW-M-101

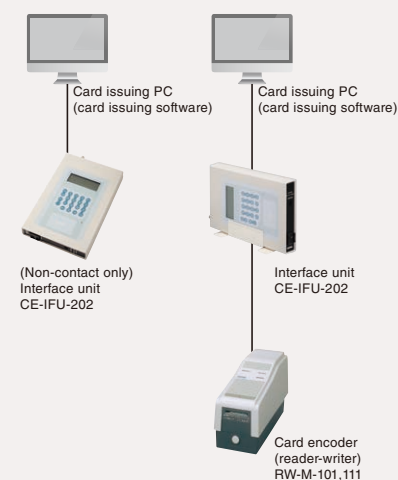


Card encoder  
(reader-writer)  
RW-M-111

## &lt;Online type&gt;

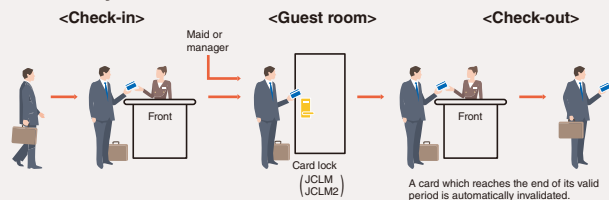


## &lt;Offline type&gt;

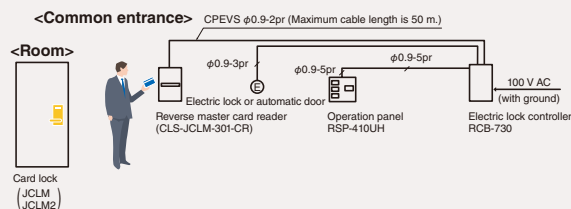


## ● Various systems using non-contact IC card locks

## ■ Basic system

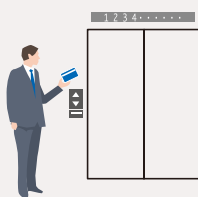


## ■ After-hours entrance and common entrance management



## ■ Elevator control system

Automatic control can be performed to automatically stop the elevators at a designated floor.

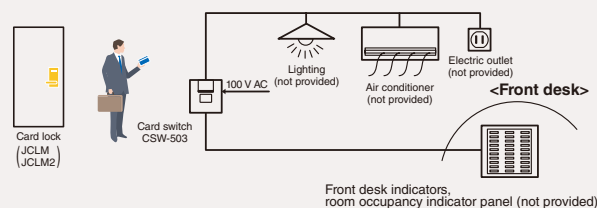


\* Other systems such as parking area gate management systems can also be constructed.

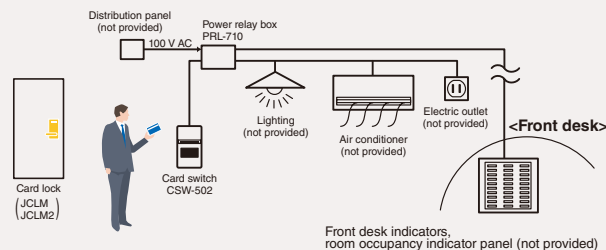
## ■ Energy-saving and room occupancy check system

## &lt;Room or door&gt;

- When CSW-503 card switch is used (\* Power relay box is not required.)



- When CSW-502 card switch is used



## ■ Component devices

- Data input device  
**DAT-602**  
(compatible with JCLM, JCLM2)



(An easy-to-operate infrared system)  
for data input and reading

- Card switch  
**CSW-503**



(Power relay box is not required.)

**CSW-502**

(Power relay box is required.)

- Reverse master card readers  
**CLS-JCLM-301-CR**  
(type compatible with JCLM, JCLM2)



(For after-hours entrance and  
common entrance management)






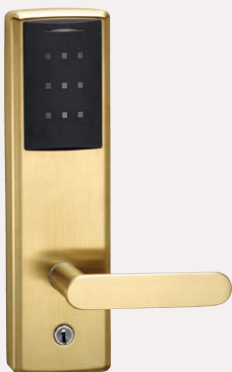
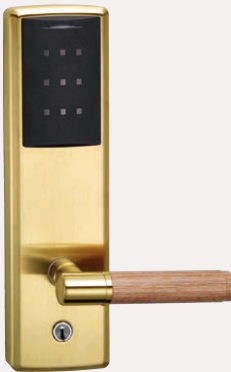
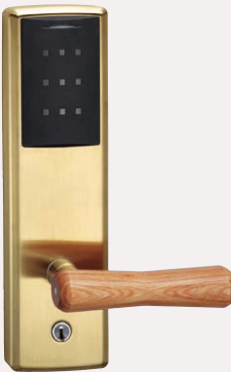








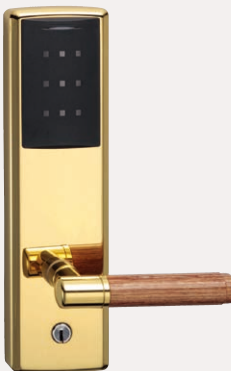
























# JCLM Non-contact IC card locks

## List of JCLM handles and escutcheons

### JCLM

Note: NW has escutcheons on both sides, while NS has an escutcheon on only one side. When ordering, be sure to specify JCLM (NW) or JCLM (NS). The appearance of the outside escutcheon is the same with both models.

<b>• JCLM-ZU 21B</b>  (Lever/escutcheon: Dull brass)	<b>• JCLM-PRCU 21B W8</b>  (Lever: Reinforced wood (Mizume cherry)  ) Escutcheon: Dull brass	<b>• JCLM-RNT 21B W13</b>  (Lever: Reinforced wood (birch)  ) Escutcheon: Dull brass	<b>• JCLM-NU 11S</b> (Lever/escutcheon: Dull stainless steel) * A bright (12S) finish is also available.	<b>• JCLM-KU 11S</b> (Lever/escutcheon: Dull stainless steel) * A bright (12S) finish is also available.
				
<b>• JCLM-ZU 22B</b>  (Lever/escutcheon: Bright brass)	<b>• JCLM-PRCU 22B W8</b>  (Lever: Reinforced wood (Mizume cherry)  ) Escutcheon: Bright brass	<b>• JCLM-RNT 22B W13</b>  (Lever: Reinforced wood (birch)  ) Escutcheon: Bright brass	<b>• JCLM-TU 11S</b> (Lever/escutcheon: Dull stainless steel) * A bright (12S) finish is also available.	<b>• JCLM-DU 11S</b> (Lever/escutcheon: Dull stainless steel) * A bright (12S) finish is also available.
				
<b>• JCLM-ZU 11S</b> (Lever/escutcheon: Dull stainless steel)	<b>• JCLM-PRCU 11B W8</b>  (Lever: Reinforced wood (Mizume cherry)  ) Escutcheon: Dull stainless steel	<b>• JCLM-RNT 11B W13</b>  (Lever: Reinforced wood (birch)  ) Escutcheon: Dull stainless steel	<b>• JCLM-JUPU 11S</b> (Lever/escutcheon: Dull stainless steel) * A bright (12S) finish is also available.	<b>• JCLM-ORIU 11S</b> (Lever/escutcheon: Dull stainless steel) * A bright (12S) finish is also available.
				
<b>• JCLM-ZU 12S</b> (Lever/escutcheon: Bright stainless steel)	<b>• JCLM-PRCU 12B W8</b>  (Lever: Reinforced wood (Mizume cherry)  ) Escutcheon: Bright stainless steel	<b>• JCLM-RNT 12B W13</b>  (Lever: Reinforced wood (birch)  ) Escutcheon: Bright stainless steel	<b>• JCLM-LWINU(R)11S</b> (Lever/escutcheon: Dull stainless steel) * A bright (12S) finish is also available.	<b>• JCLM-COMU(R)11S</b> (Lever/escutcheon: Dull stainless steel) * A bright (12S) finish is also available.
				

 Precautions: Avoid using reinforced wood levers outdoors. Also, be careful not to scratch brass levers or escutcheons. Sufficient daily maintenance is necessary. (For the maintenance methods, refer to P.3.)

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Cylindrical  
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locks

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Cremon  
locks  
Glass door  
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Emergency  
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Cup handle  
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**JCLM2** (\* Escutcheons on both the outside and inside. A wide variety of handle designs and escutcheon finishes are available.)

- **JCLM2-ORIU 11S(668)**  
(Lever: Dull stainless steel  
Escutcheon: Light gray)



- **JCLM2-ORIU 12S(864)**  
(Lever: Bright stainless steel  
Escutcheon: Off-white)



- **JCLM2-ORIU 11S(369)**  
(Lever: Dull stainless steel  
Escutcheon: Silver coating)



- **JCLM2-ORIU 12S(8800)**  
(Lever: Bright stainless steel  
Escutcheon: Black coating)



- **JCLM2-ZU 21B(864)** ⚠  
(Lever: Dull brass  
Escutcheon: Off-white)



- **JCLM2-ZU 22B(864)** ⚠  
(Lever: Bright brass  
Escutcheon: Off-white)



- **JCLM2-ZU 21B(269)** ⚠  
(Lever: Dull brass  
Escutcheon: Gold coating)



- **JCLM2-ZU 21B(8800)** ⚠  
(Lever: Dull brass  
Escutcheon: Black coating)





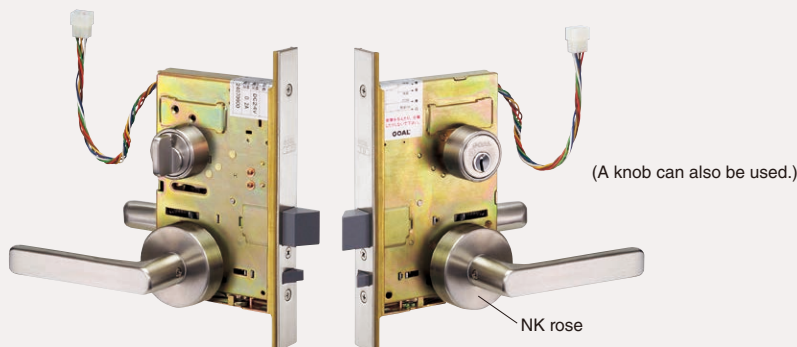
## Function-switching electric locks EU series

### EUT, EUTP (Fail secure, fail secure with anti-panic function)

### EUR, EURP (Fail safe, fail safe with anti-panic function)

**Applications** Controlled building entrances, emergency exits, etc.

- **V-EUT-5NU11S(NK)** (backset: 76 mm)  
(Photo shows a V18 cylinder, NU lever handle, dull stainless steel finish.)



\* An EU rose is also available.



- A front with guard plate (L type front) is also available.



(\* The front with guard plate is a special order product.)

- **V-EUT-5Q**



(Cup handles can also be used.)

**When installing, it is possible to select fail secure type or fail safe type. The anti-panic function can be added to either side.**

### Features

- The electric lock function (T type EUT or R type EUR) can be easily changed. (It is changed by means of a switch inside the front.)
- **EUT** (Fail secure type): The lock is unlocked while it is energized and locks when the supply of power stops. (When the lock is not energized, the door locks automatically when it is closed.)
- **EUR** (Fail safe type): The lock is locked while it is energized and unlocks when the supply of power stops. (When the lock is energized, the door locks automatically when it is closed.)

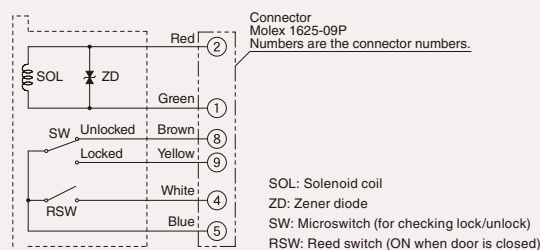
- The side where the anti-panic function is added can also be switched. It can be added to either the left or right side of the lock case, allowing the same type to be used for any lock handling.

\* The anti-panic function can be added to the desired side by operating the switch.

- Can be unlocked using the key or thumbturn.
- **EUT, EUR**: When unlocked using the key or thumbturn, the lock remains unlocked until the lever handle (knob) is operated. Once the lever handle (knob) has been operated, the lock returns to the locked state.

### Circuit diagram

- Internal circuit diagram  
(Diagram shows the conditions when the door is opened and unlocked.)



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Cup handle  
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## ■ EU function switching method (Can be switched as needed either during or after installation.)

### ● Switching procedure ⚠ Operate the switch when the electric lock is not energized.

① Remove the lock front.



② Loosen the switch holder plate screw and move the holder plate.



③ Use a tool to operate the switch.



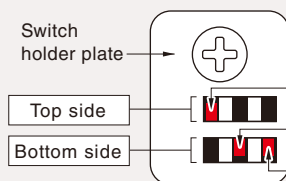
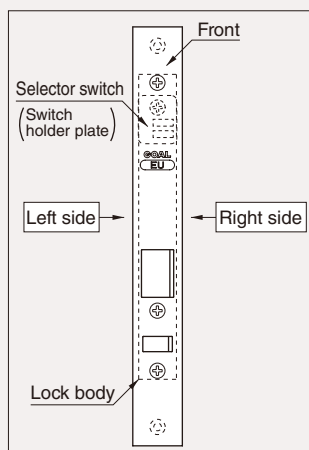
④ After operating the switch, put the holder plate back in its original position and securely tighten the screw.



(The function selector switch is set at the time of shipping according to the ordered model and model No. Switch the function as needed.)

### ● Relationship of switch position and function

Switch position \ Switch	Switch C	Switch B	Switch A
Top side	There is an anti-panic function on the left side. (Note)	R type (Fail safe type: EUR)	There is an anti-panic function on the right side. (Note)
Bottom side	No anti-panic function on the left side. (Note)	T type (Fail secure type: EUT)	No anti-panic function on the right side. (Note)



(This diagram shows the following conditions.)

- T type (fail secure type)
- Right side (Note): No anti-panic function
- Left side (Note): With anti-panic function

Note: The left side and right side refer to the left and right sides of the lock when viewed from the lock front as shown in the figure at left.

## Specifications (Door thickness: ## mm or more~less than ## mm)

Electrical specifications	Operation type (series)	Fail safe type (R type: EUR)	Fail secure type (T type: EUT)
	When equipped with anti-panic function	EURP	EUTP
Lock specifications	Rated voltage	24 V DC (Working voltage range 19 V~27 V DC)	
	Rated current	0.2 A (continuous energizing)	
	Switch capacity	Microswitch (for checking lock/unlock): 24 V DC, 0.1 A Reed switch (for checking door open/closed): 24 V DC, 0.1 A (resistance load) Pay particular attention because the reed switch is ON when the door is closed.	
	Working temperature range	-10~50°C (Must be no freezing or condensation.)	
	Lead wire (with connector)	Length 200 mm (Molex 1625-09P)	
	Electrical conductors	RCL-27 (Refer to P.72.)	
	Control box	RCB-730, RCB-500 (Refer to P.73.)	
	Backset	76 mm	
	Door thicknesses (Contact GOAL for more information.)	Lever (NK rose): 29~33 / 33~38 / 38~43 / 43~48 / 48~53 mm (For 29~33 mm, a spacer is required.) Lever (EU rose): 29~33 / 33~38 / 38~43 / 43~48 / 48~53 mm Knob: 29~33 / 33~43 / 43~53 mm (However for a P or S type, the minimum is 33 mm.)	
	Gap (door and jamb)	6 mm or less	
Key specifications	Lever handles	NU, KU, TU, and various other types are available. (Refer to P.25~28.) (NK rose and EU rose are available.)	
	Knobs	Q, K, Y, B, S, P types, etc. (Refer to P.36.)	
	Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]	
	Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV cylinders: Optional key change systems are also available.) (GV: Optional Universal Key System (UKS2) available)	
	Thumbturn	Standard type only	

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

## ■ List of EU series models

When ordering, add the cylinder symbol to the model, for example V-EUT-5NU11S.

Compatible cylinders and cylinder symbols	Model (Note 1) (is the cylinder symbol.)	(Inside)	Illustration (Note 2)	(Outside)
—	<b>EUR EUT</b> -3**	Thumbturn		—
		Lever or knob		Lever or knob
<b>GP</b> (GP) <b>V</b> (V18) <b>GV</b> (GV) <b>P</b> (6-pin) <b>Z</b> (7-pin)	<b>-EUR EUT</b> -5**	Thumbturn		Cylinder
		Lever or knob		Lever or knob
		Cylinder		Cylinder
		Lever or knob		Lever or knob
<b>GP</b> (GP) <b>V</b> (V18) <b>GV</b> (GV) <b>P</b> (6-pin) <b>Z</b> (7-pin)	<b>-EUR EUT</b> -6**	Cylinder		Cylinder
		Lever or knob		Lever or knob
		—		Cylinder
		Lever or knob		Lever or knob
<b>GP</b> (GP) <b>V</b> (V18) <b>GV</b> (GV) <b>P</b> (6-pin) <b>Z</b> (7-pin)	<b>-EUR EUT</b> -7**	—		Cylinder
		Lever or knob		Lever or knob
		—		Cylinder
		Lever or knob		Lever or knob
<b>GP</b> (GP) <b>V</b> (V18) <b>GV</b> (GV) <b>P</b> (6-pin) <b>Z</b> (7-pin)	<b>-EURP EUTP</b> -7**	—		Cylinder
		Lever or knob		Lever or knob
		—		Cylinder
		Lever or knob		Lever or knob

Note 1: \* indicates the lever or knob design and finish symbol.

2: The illustration shows a dimple key for a V18 cylinder.



**ELSF**  
**ESSF****Electric locks** (type locked and unlocked by an instantaneous flow of current)  
**ELSF** (lever type), **ESSF** (knob type)**Applications**

Controlled building entrances, apartment building common entrances, office entrances, home entrances, etc.

- **V-ELSF-5NU11S** (backset: 76 mm)  
(Photo shows a V18 cylinder, NU lever handle, dull stainless steel finish.)



- For a knob type, **V-ESSF-5Q**



(Cup handles can also be used.)

**These electric locks are locked and unlocked by an instantaneous flow of current.****Features**

- These electric locks lock and unlock when they are instantaneously energized.
- They can also be electronically locked and unlocked using the key or thumbturn.
- Can be electrically unlocked even when large side pressure is acting on the door.
- A signal can be output for checking the locked/unlocked and door open/closed status.
- ELS and ESS types with status indicator lamps are also available.

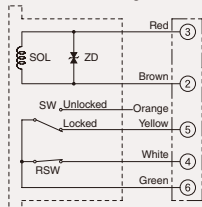
**ELSF, ESSF, ELM, ESM specifications (Door thickness: ## mm or more-less than ## mm)**

Electrical specifications	Model	ELSF, ESSF (Note 1)	ELM, ESM
	Rated voltage	24 V DC (Working voltage range 19 V~27 V DC)	
	Rated current	0.32 A (energizing time 0.2 seconds, energizing rate 1/20)	0.2 A (continuous energizing)
	Switch capacity	Microswitch (for checking lock/unlock): 24 V DC, 0.1 A Reed switch (for checking door open/closed): 24 V DC, 0.1 A (resistance load) (Reed switch is ON when the door is closed.)	
	Working temperature range	-10~50°C (Must be no freezing or condensation.)	
	Lead wire (with connector)	Length 200 mm (Molex 1625-06P)	
	Electrical conductors	RCL-21, 21U (Refer to P.72.)	
	Control box	RCB-730, 500, others (Refer to P.73.)	
	Backset	76 mm	
Lock specifications	Door thicknesses (Note 1) (Contact GOAL for more information.)	29~33 / 33~43 / 43~53 mm (However for an S type, the minimum is 33 mm.)	
	Gap (door and jamb)	6 mm or less	
	Lever handles (ELSF, ELM)	NU, KU, TU types, etc. (Refer to P.25~28.)	
	Knobs (ESSF, ESM)	Q, Y, K, S, B types (Refer to P.36.) * Cup handles can also be used (door thicknesses 33 mm or more).	
	Cylinder [symbol] (Note 2)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]	
	Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Optional Universal Key System (UKS2) available)	

Note 1: ELS and ESS types with lamps are available, however the door thickness specifications are different. Please contact us.  
2: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

**■ ELSF, ESSF circuit diagram**

- Internal circuit diagram (This diagram shows the conditions with the door closed and locked.)



SOL: Solenoid coil  
ZD: Zener diode  
SW: Microswitch (for checking lock/unlock)  
RSW: Reed switch (ON when door is closed)

**Solenoid control method**

Polarity	Locked	Unlocked
Red	+	-
Brown	-	+

**ELM**  
**ESM****Electric locks** (unlocked when energized type)  
**ELM** (lever type), **ESM** (knob type)**Applications**

Office entrances, home entrances, etc.

- **V-ELM-5NU11S** (backset: 76 mm)  
(Photo shows a V18 cylinder, NU lever handle, dull stainless steel finish.)



- For a knob type, **V-ESM-5Q**  
(Photo shows a V18 cylinder and Q knob.)



(Cup handles can also be used.)

**These electric locks are unlocked when energized, and lock when the power is turned off.****Features**

- The lock remains unlocked while it is energized, and locks when the supply of power stops.  
These electric locks can be unlocked electrically. (They cannot be locked electrically.)  
The lock will be locked in the event of a power outage or severed wire.
- Can be kept unlocked using the key or thumbturn.  
When the lock was mechanically unlocked using the key or thumbturn, the door will not lock automatically when it is closed.
- When the key or thumbturn is in the locked position and the door is closed, the door locks automatically.

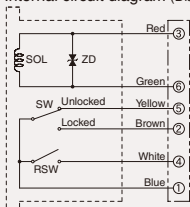
**■ List of ELSF, ESSF, ELM, ESM series models**

When ordering, add the cylinder symbol to the model, for example V-ELSF-5NU11S.

Compatible cylinders and cylinder symbols	Model	(Inside)	Illustration	(Outside)
—	<b>ELSF</b> <b>ELM</b> -3** ( <b>ESSF</b> <b>ESM</b> -3*)	Thumbturn		—
		Lever (knob)		Lever (knob)
		—		Cylinder
<b>GP</b> (GP) <b>V</b> (V18) <b>GV</b> (GV) <b>P</b> (6-pin) <b>Z</b> (7-pin)	<b>ELSF</b> <b>ELM</b> -5** ( <b>ESSF</b> <b>ESM</b> -5*)	Thumbturn		—
		Lever (knob)		Lever (knob)
		—		Cylinder
<b>GP</b> (GP) <b>V</b> (V18) <b>GV</b> (GV) <b>P</b> (6-pin) <b>Z</b> (7-pin)	<b>ELSF</b> <b>ELM</b> -6** ( <b>ESSF</b> <b>ESM</b> -6*)	Cylinder		—
		Lever (knob)		Lever (knob)
		—		Cylinder
<b>GP</b> (GP) <b>V</b> (V18) <b>GV</b> (GV) <b>P</b> (6-pin) <b>Z</b> (7-pin)	<b>ELSF</b> <b>ELM</b> -7** ( <b>ESSF</b> <b>ESM</b> -7*)	—		—
		Lever (knob)		Lever (knob)
		—		Cylinder

**■ ELM, ESM circuit diagram**

- Internal circuit diagram (Diagram shows the conditions when the door is opened and unlocked.)



SOL: Solenoid coil  
ZD: Zener diode  
SW: Microswitch (for checking lock/unlock)  
RSW: Reed switch (ON when door is closed)

**Solenoid control method**

Polarity	Locked	Unlocked
Red	+	-
Brown	-	+

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locks**Electrical  
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Control  
boxes

Dimensions



# EMV Electric dead lock (motor lock) EMV series

**Applications** Apartment building common entrances, office entrances, home entrances, emergency exits, etc.

- **V-EMV-5**  
(Photo shows a V18 cylinder with backset 64 mm.)



Precautions: Use with a side pressure on the deadbolt of 49 N or less.

These electric locks use a motor to operate the deadbolt and lock/unlock the door.

## Features

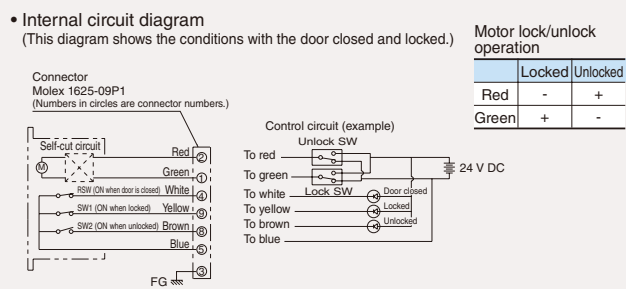
- The lock is locked and unlocked by the action of an electric motor contained within the lock.
- Can also be locked and unlocked using the key or thumbturn.
- Because the lock body is compact, it can be installed even on narrow vertical frames.

## Specifications (Door thickness: ## mm or more-less than ## mm)

Electrical specifications	Model	EMV(9P connector)
	Rated voltage	24 V DC (Working voltage range 19 V~27 V DC)
	Rated current	0.2 A (with self-cut function) (The power capacity must be 0.5 A or more.)
	Switch capacity	Microswitch (for checking lock/unlock): 24 V DC, 0.1 A Reed switch (for checking door open/closed): 24 V DC, 0.1 A (resistance load) Pay particular attention because the reed switch is ON when the door is closed.
	Working temperature range	-10~50°C (Must be no freezing or condensation.)
	Lead wire (with connector)	Length 230 mm (Molex 1625-09P)
	Electrical conductors	RCL-27
	Control box	RCB-730, RCB-500 (Refer to P.73.)
	Backset	38 mm, 51 mm, 64 mm, 76 mm
	Door thicknesses (Contact GOAL for more information.)	29~43 / 43~53 mm
Lock specifications	Gap (door and jamb)	6 mm or less
	Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
	Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Optional Universal Key System (UKS2) available)

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

## EMV, EMVSX circuit diagram



Note: Set the motor energizing time within the range of three to five seconds. The power capacity must be 0.5 A or more.

# EMVSX Splash-proof electric dead lock (motor lock) EMVSX series

**Applications** Apartment building common entrances, emergency exits, home entrances, gates, etc.

- **V-EMVSX-5** (backset: 51 mm)  
(Photo shows a V18 cylinder with backset 51 mm.)



Precautions: Use with a side pressure on the deadbolt of 49 N or less and only in the vertical orientation that is shown in the photo.

These splash-proof specification electric locks use a motor to operate the deadbolt and lock/unlock the door.

## Features

- This is an EMV motor lock with splash-proof specifications. It can be used at entrances, gates, and other locations that are exposed to wind and rain. Because the lock case is completely sealed with silicon, it can withstand use in locations that are exposed to wind and rain.
- The backset is 51 mm only.
- Because the cylinders and thumbturns that are used are different from those used in the EMV, the door thicknesses and door notch dimensions are different from the EMV.

Note: Because the cylinder and thumbturn mounting positions are reversed from those in the EMV (cylinder or thumbturn is on bottom and deadbolt is on top), install the strike plate so that the actuator (magnet) is facing down.

## Specifications (Door thickness: ## mm or more-less than ## mm)

\* Electrical specifications are the same as EMV.

Lock specifications	Model	EMVSX(9P connector)
	Backset	51 mm
	Door thicknesses (Contact GOAL for more information.)	GP, V18, GV: GP, V, GV-EMVSX-5, 7...30~43 / 43~53 mm GP, V, GV-EMVSX-6 .....30~40 / 40~50 mm
	6-pin, 7-pin Cylinder	P, Z-EMVSX-5.... 30~45 / 45~55 mm P, Z-EMVSX-6.... 37~47 / 47~57 mm P, Z-EMVSX-7.... 30~55 mm
	Gap (door and jamb)	6 mm or less
	Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
	Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available) (GV: Universal Key System not supported)

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

## List of EMV, EMVSX series models

When ordering, add the cylinder symbol to the model, for example V-EMV-5.

Compatible cylinders and cylinder symbols	Model	(Inside)	Illustration (Illustration shows EMV.)	(Outside)
—	EMV -3	Thumbturn		—
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	EMV EMVSX -5	Thumbturn		Cylinder
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	EMV EMVSX -6	Cylinder		Cylinder
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	EMV EMVSX -7	— (In the case of EMVSX, this is a dummy plate.)		Cylinder



**Applications** Apartment building common entrances, office entrances, home entrances, gates, emergency exits, etc.

- **V-SXEV-5** (backset: 51 mm)  
(Photo shows V-SXEV-5 with V18 cylinder.)



- **Splash-proof V-SXESV-5** (backset: 51 mm)  
(Photo shows V-SXESV-5 with V18 cylinder.)



**Precautions:** 1. Use with a side pressure on the deadbolt (hooked deadbolt) of 19.6 N or less.  
2. The splash-proof type SXESV can be used only in the vertical orientation shown in the photo.

## These electric locks use a motor to operate the deadbolt (hooked deadbolt) and lock/unlock the sliding door.

### Features

- The lock is locked and unlocked by the action of an electric motor contained within the lock.
- Splash-proof SXESV is also available. (The thumbturn is the standard type only.)

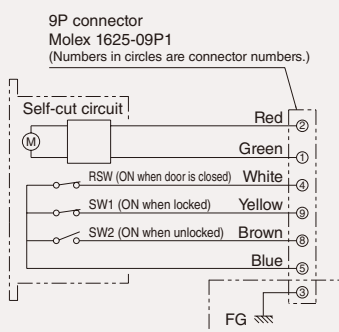
### Specifications (Door thickness: ## mm or more-less than ## mm)

Electrical specifications	Model	<b>SXEV, SXESV</b> (Splash-proof) (9P connector)	
	Rated voltage	24 V DC (Working voltage range 19 V~27 V DC)	
	Rated current	0.2 A (with self-cut function) (The power capacity must be 0.5 A or more.)	
	Switch capacity	Microswitch (for checking lock/unlock): 24 V DC, 0.1 A Microswitch (for checking door open/closed): 24 V DC, 0.1 A (Pay particular attention because the microswitch is ON when the door is closed.)	
	Working temperature range	-10~50°C (Must be no freezing or condensation.)	
	Lead wire (with connector)	Length 230 mm (Molex 1625-09P)	
	Control box	RCB-730, 500 series (Refer to P.73.)	
Lock specifications	Backset	51 mm	
	Door thicknesses (Contact GOAL for more information.)	SXEV	GP,V,GV,P,Z-3,5,6,7..... 29~43 / 43~53 mm
		SXESV	GP,V,GV-5,7..... 30~43 / 43~53 mm
			GP,V,GV-6..... 30~40 / 40~50 mm
			P,Z-5 ..... 30~45 / 45~55 mm    P,Z-7.....30~55 mm
			P,Z-6 ..... 37~47 / 47~57 mm
	Gap (door and jamb)	5 mm or less	
	Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]	
Key systems	Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV cylinders: Optional key change system available) (GV: Optional Universal Key System (UKS2) available) (Note: Universal Key System for splash-proof type SXESV is not supported.)	
		Thumbturn	
		SXEV.....Standard type, TM, TME, other types SXESV.....Standard type only	
Model No.	Model No.	SXEV-3, 5, 6, 7    SXESV (splash-proof type)-5, 6, 7	

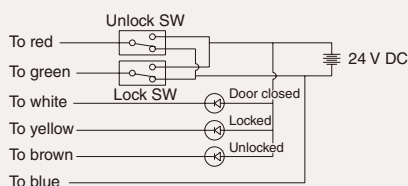
Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

### ■ SXEV, SXESV circuit diagram (Note)

- **SXEV, SXESV** (9P connector)



#### <Control circuit>



Note: Set the motor energizing time within the range of three to five seconds.  
The power capacity must be 0.5 A or more.

#### Motor lock/unlock operation

	Locked	Unlocked
Red	-	+
Green	+	-

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Integral  
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Cylindrical  
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Rim dead  
locks

Dead locks  
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Glass door  
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Emergency  
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Cup handle  
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Sliding  
door locks

#### ▼ Electric locks Security systems

Ten-key  
pads

Key switches  
Interlock /  
emergency  
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Hotel card  
locks

Electric  
locks

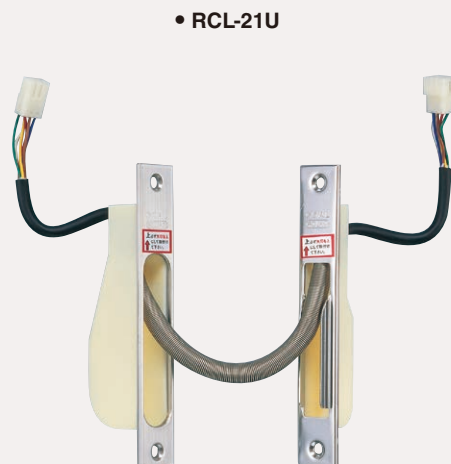
Electrical  
conductors,  
Control  
boxes

Dimensions



## Applications

Used for wiring that is connected to electric locks and other products installed on doors.



Precautions: Be aware that a concealed type electrical conductor cannot be used with a center-hanging type door.

## Concealed type electrical conductors that the leads are not exposed when door is closed.

## Specifications

### RCL series concealed type electrical conductor specifications and types of electric locks used

Note: Because the door side cable length is 100 mm, use an extension cord when necessary.

Model	Number of lead wires	Cable length (mm)		Front	Connector	Lead wire (heat-resistant wire)	Electric lock used
		Door side	Frame side	Lock case			
RCL-21	6	2,000	150	Stainless steel	Molex 1625-06P,R	UL-2586 AWG24 (11/0.16)	<ul style="list-style-type: none"> <li>• ELSF, ELM lever handle-type electric locks</li> <li>• ESSF, ESM mortise lock-type electric locks</li> </ul>
				Steel plate			
RCL-21U	6	(Note) 100	150	Stainless steel			
				ABS plastic			
RCL-27	7	2,000	150	Stainless steel	Molex 1625-09P,R	UL-2586 AWG24 (11/0.16)	<ul style="list-style-type: none"> <li>• EMV, EMVSX electric dead motor lock (Refer to P.70.)</li> <li>• EU series function-switching electric locks (Refer to P.67,68.)</li> </ul>
				Steel plate			



# RCB-500

## Electric lock control boxes RCB-500 series

### Applications Control of electric locks

- RCB-505 (for 5 lines)



- Operation panel

RSP-410U

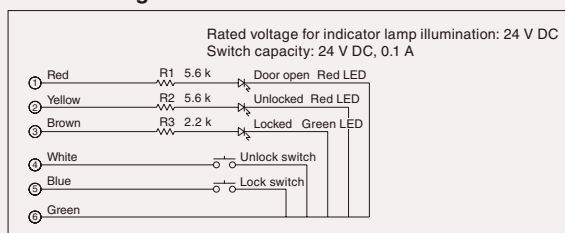


RSP-410UH

(With unlock hold function)



### Circuit diagram



#### Precautions:

1. This product uses indoor specifications. Do not use it in locations that are exposed to contact with rainwater.
2. When used with an interlock door system, there is no operation button or indicator lamp. The size is the RCB-505 size.

### Specifications

Model	<b>RCB-501~RCB-515</b> (The last 2 digits of the model number are the number of lines.)
Number of lines that can be used	1~15 lines (Each line can control a different electric lock.)
Compatible electric locks	<ul style="list-style-type: none"> <li>• ELSF, ELM series lever handle-type electric locks (Refer to P.69.)</li> <li>• EMV, SXEV series motor locks (Refer to P.70.)</li> <li>• EU series function-switching electric locks (Refer to P.67,68.)</li> <li>• ESSF, ESM series mortise lock-type electric locks (Refer to P.69.)</li> </ul>
Input voltage, rated output voltage	100 V AC (50/60 Hz), 24 V DC
Power consumption	Varies depending on the type of electric locks used and the number of lines.
Standard external dimensions (mm)	RCB-501~RCB-505: Width 400 × Height 300 × Thickness 120 RCB-506~RCB-510: Width 400 × Height 550 × Thickness 120 RCB-511~RCB-515: Width 400 × Height 800 × Thickness 120
Standard finish	Baked coating (Munsell 2.5Y-9/1 semi-gloss)
External input	Operation panel RSP-410U, etc. (Maximum 3 can be connected per line.)
Special function (symbol) (options)	<ul style="list-style-type: none"> <li>• 24-hour timer (A)</li> <li>• Weekly timer (B)</li> <li>• Interlock control function (H)</li> <li>• Spare power supply function (F)</li> <li>• Forced unlock of one electric lock one time only in the event of a power outage (L) (Motor locks, instantaneous flow of current types)</li> <li>• Various other functions are available.</li> </ul>

# RCB-730

## Electric lock controllers RCB-730

### Applications Control of electric locks

- RCB-730



- Operation panel

RSP-410U



RSP-410UH

(With unlock hold function)



- Precautions: This product uses indoor specifications. Do not use it in locations that are exposed to contact with rainwater.

### Specifications

Model	<b>RCB-730</b>
Input voltage	100 V AC (50/60 Hz)
Power consumption	10 VA (maximum)
Rated output voltage	24 V DC
Working temperature range	-10~+40°C (Must be no freezing or condensation.)
Compatible electric locks	<ul style="list-style-type: none"> <li>• ELSF, ELM series lever handle-type electric locks (Refer to P.69.)</li> <li>• EMV, SXEV series motor locks (Refer to P.70,71.)</li> <li>• EU series function-switching electric locks (Refer to P.67,68.)</li> <li>• ESSF, ESM series mortise lock-type electric locks (Refer to P.69.)</li> </ul>
External input	<ul style="list-style-type: none"> <li>• Can connect to RSP-410U, 410UH operation panels (maximum 4).</li> <li>• Unlock can be held by non-voltage a contact input.</li> </ul>

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Rim dead  
locks

Dead locks  
Cremor  
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Glass door  
locks

Emergency  
locks  
Cup handle  
locks

Sliding  
door locks

#### Electric locks Security systems

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Key switches  
Interlock /  
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door  
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Hotel card  
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Electric  
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Electrical  
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Dimensions



# Dimensions

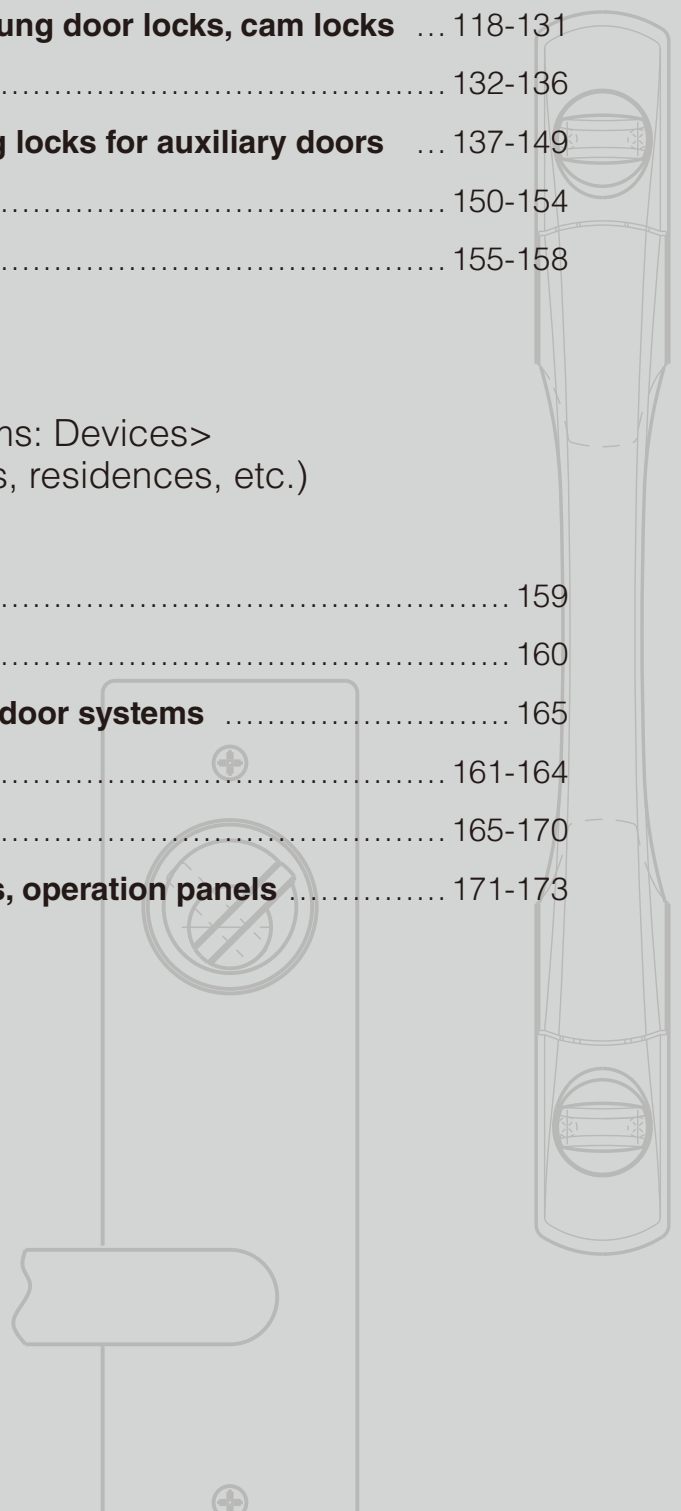
## <Locks>

<b>1. Push-pull locks, passage latches</b>	75-87
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Backset	Door thickness (Contact GOAL for more information.)	Gap (door and jamb)
51 mm (GOL type only) 64 mm	28~33 / 33~38 / 38~43 / 43~48 / 48~53 mm	6 mm or less

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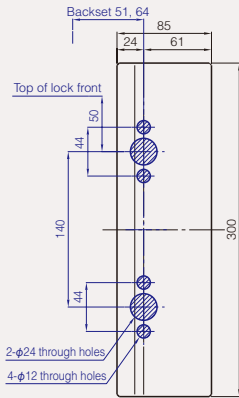
Dimensions

Dimensions/Notch (Unit: mm)

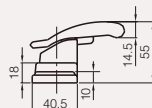
Door thickness: ## mm or more-less than ## mm

● PY handles (plate handles)

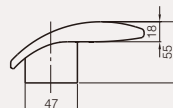
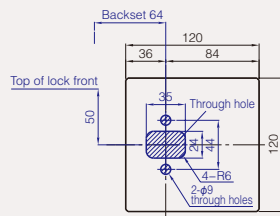
GOL type



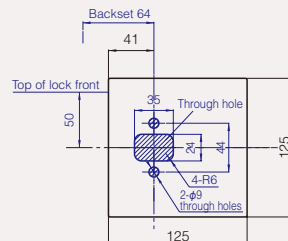
(Notch dimensions are the same as the ARC type.)



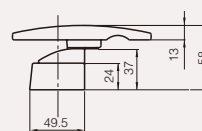
GOM type, GMA type



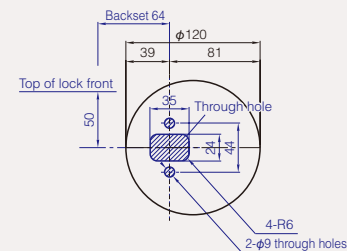
GOU type



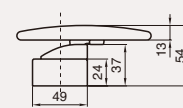
(Notch dimensions are the same as the GOM type.)



GOX type



(Notch dimensions are the same as the GOM type.)





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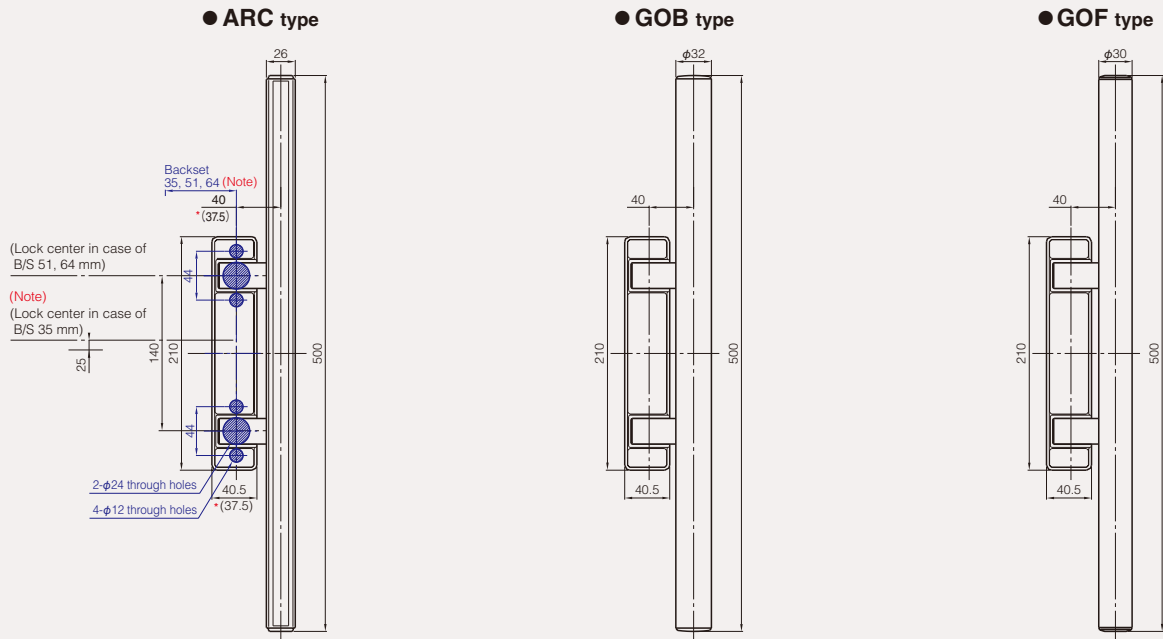
Backset	Door thickness (Contact GOAL for more information.)	Gap (door and jamb)
(Note) 35, 51, 64 mm	28~33 / 33~38 / 38~43 / 43~48 / 48~53 mm	6 mm or less

Door thickness: ## mm or more~less than ## mm

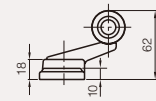
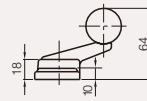
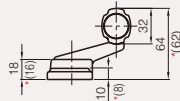
Dimensions/Notch (Unit: mm)

- PY handles (bar handles) (\* Can be used with backset 35 mm, 51 mm, or 64 mm.)  
(\* Bar handle notch dimensions are all the same as the ARC type.)

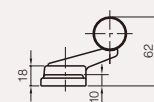
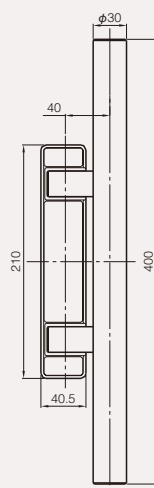
Note: Be aware that when used with backset 35 mm, the locks and notches are different from backset 51 mm and 64 mm.



\* The ARC handle escutcheon is aluminum or brass.  
Dimensions in ( ) indicate the dimensions for a brass handle.



● MOA, MOB, MOC type





Compatible cylinders		Model No.	Handle	Hand *	Backset	Door thickness (Contact GOAL for more information)
V18 [V] GV [GV] GP [GP]	6 pins [P] 7 pins [Z]	5	GOE, GOH	R L UR UL	64 mm	31~34 / 34~37 / 37~40 / 40~43 mm  (gap 6 mm or less)
V18 [V] GV [GV]			GOQ	R L		

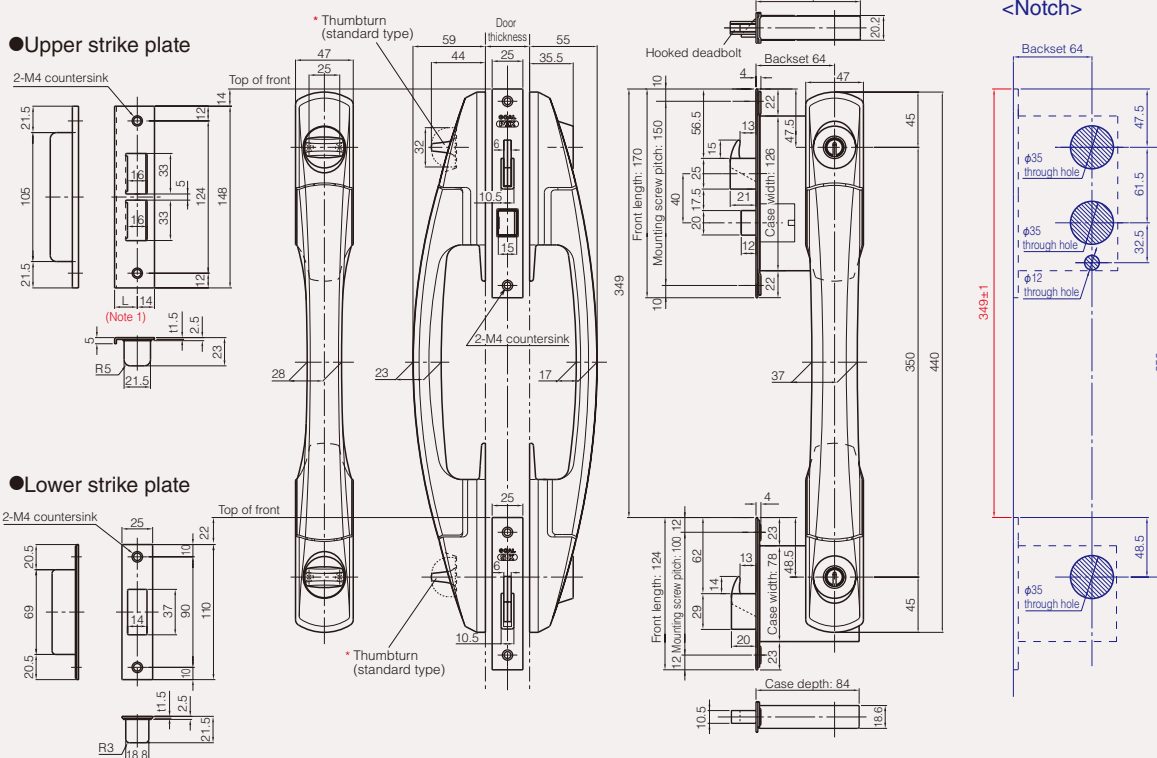
### ■ Dimensions/Notch (Unit: mm)

t: mm)

Door thickness: ## mm or more~less than ## mm


● **V-PXK SK-5 GOE(R)** <Illustration shows V18 cylinder, **GOE** handle, **R** type for right-hinged out-swinging door.>

\* In addition to standard type thumbturns, TM and TME security thumbturns are also available.



(Note 1)

■ Strike plate lip (L) dimension

For single leaf door 		
Door thickness (minimum-less than)mm	Classification	L dimension (mm)
31~34	20.5L	20.5
34~40	22.5L	22.5
40~43	24.5L	24.5

For double leaf door		
Door thickness (minimum-less than)mm	Classification	L dimension (mm)
31~34	18.5L	18.5
34~38	20.5L	20.5
38~42	22.5L	22.5
42~43	24.5L	24.5

### Precautions when selecting a strike plate

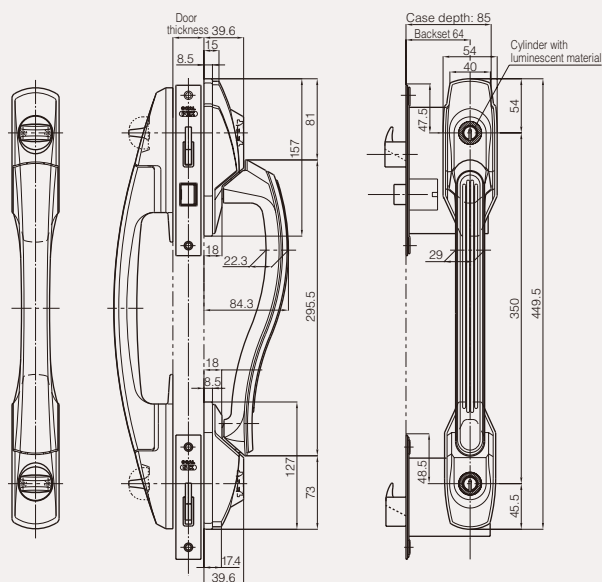
The strike plate shown in the table at left is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount. Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.

● **V-PXK SK-5 GOH(R)** (\* For out-swinging doors only)

<Illustration shows V18 cylinder, **GOH** handle, **R** type for right-hinged out-swinging door, cylinder with luminescent material. >

\* The inside handle is a GOE type.

\* Dimensions not listed are the same as the illustration above.

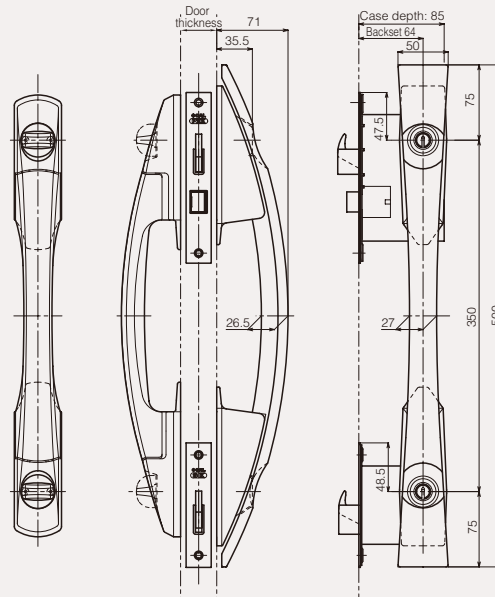


● **V-PXK SK-5 GOQ(R)** (\* For out-swinging doors only)

<Illustration shows V18 cylinder, **GOQ** handle, **R** type for right-hinged out-swinging door.>

\* The inside handle is a GOE type.

\* Dimensions not listed are the same as the illustration above.



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## Dimensions



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Compatible cylinders	Model No.	Hand	Backset	Door thickness (Contact GOAL for more information.)
V18 [V] GV [GV] GP [GP]	5	R L UR UL	64 mm	31~34 / 34~37 / 37~40 / 40~43 mm (gap 6 mm or less)

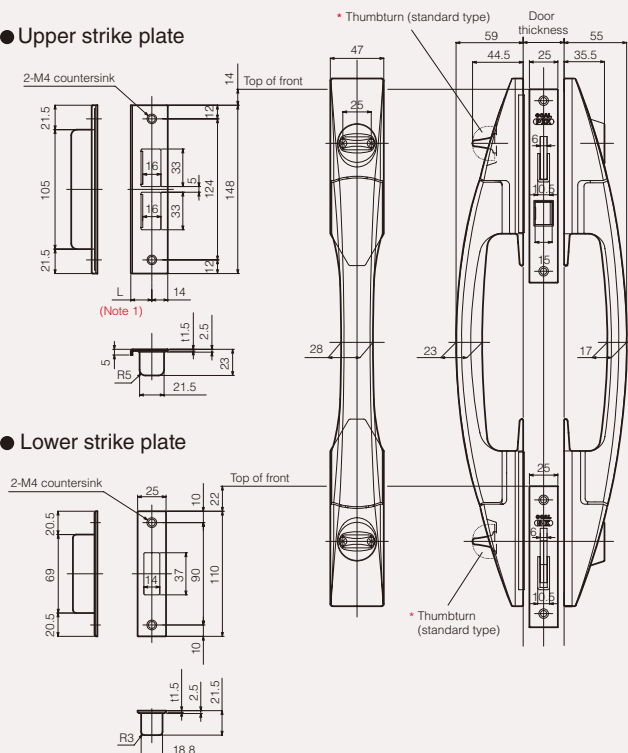
Door thickness: ## mm or more~less than ## mm

**■ Dimensions/Notch** (Unit: mm)

● **V-PXK SK-5 GSA(R)** <Illustration shows V18 cylinder, **GSA** handle, **R** type for right-hinged out-swinging door.>

\* In addition to standard type thumbturns, TM and TME security thumbturns are also available.

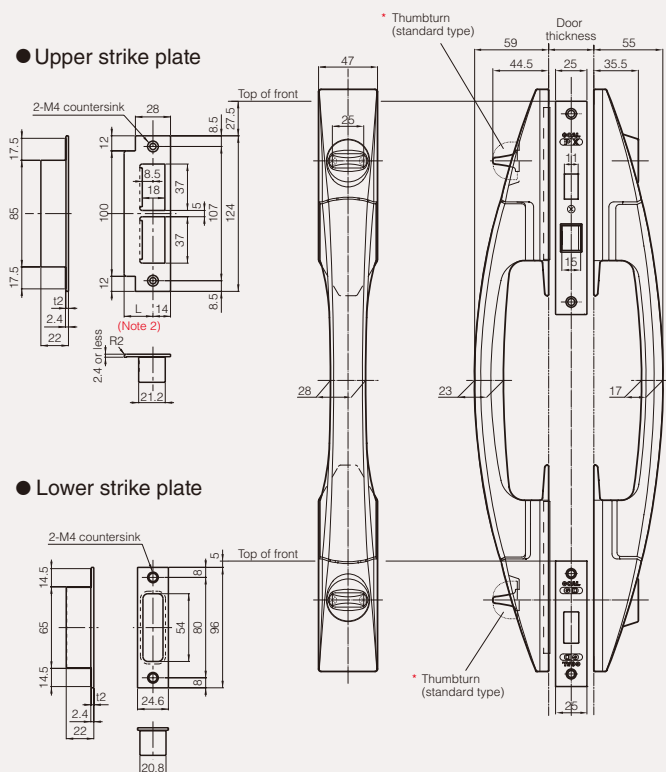
- Upper strike plate



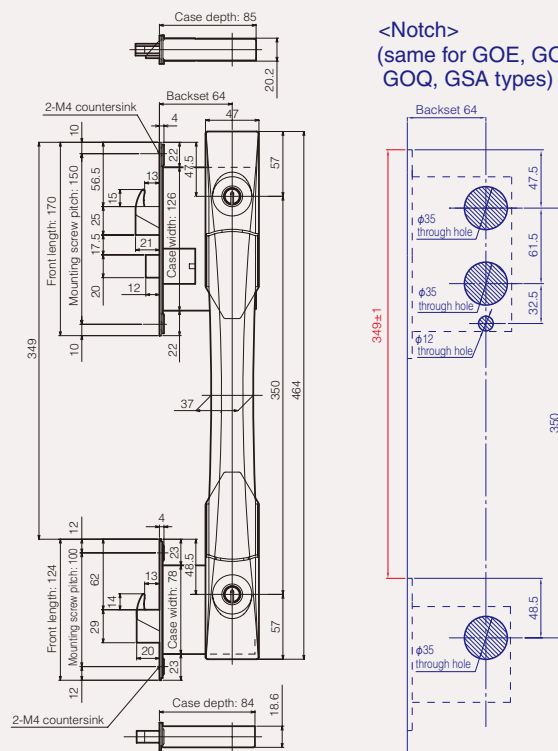
**Note 1:** For the relationship between door thicknesses and strike plate lip (L) dimension, refer to P.77.

● **V-PX GDT-5 GSA(R)** <Illustration shows V18 cylinder, **GSA** handle, **R** type for right-hinged out-swinging door.>

- Upper strike plate



**Note 2:** For the relationship between door thicknesses and strike plate lip (L) dimension, refer to P.79.



<Notch>  
(same for GOE, GOH,  
GOQ, GSA types)













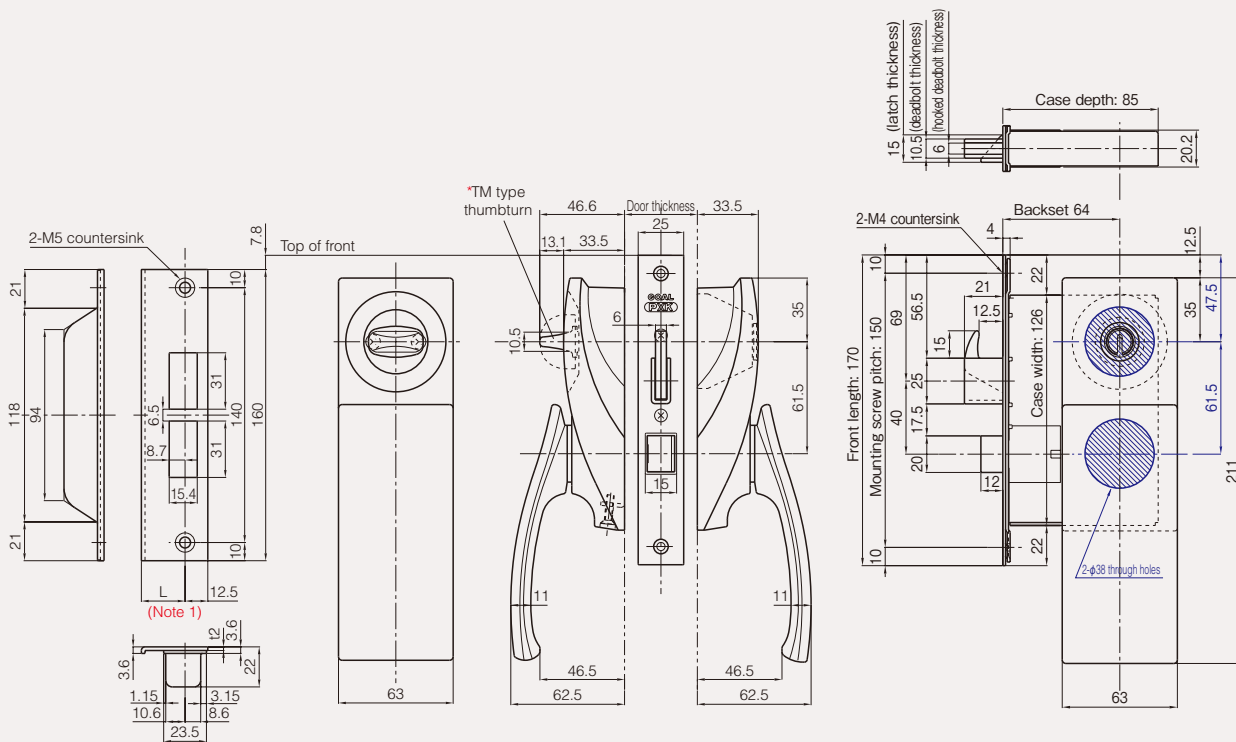


Compatible cylinders	Model No.	Hand	Backset	Door thickness (Contact GOAL for more information.)	Gap (door and jamb)
V18 [V] GV [GV]	5	R L	64 mm	31~34 / 34~37 / 37~40 / 40~43 mm	6 mm or less

Door thickness: ## mm or more~less than ## mm


<Illustration shows V18 cylinder, **GOR** handle, **TM** thumbturn, **R** type (right-hinged out-swinging door).>

\* In addition to TM thumbturns, TME, TMB, and TMK security thumbturns are also available.



(Note 1)

■ **Strike plate lip (L) dimension**

For single leaf door 		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
31~34	20L	20
34~40	22L	22
40~43	24L	24

\* Indicate the door thickness when ordering.

### Precautions when selecting a strike plate

The strike plate shown in the table at left is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount. Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.











Backset	Door thickness (Contact GOAL for more information.)	Gap (door and jamb)
64 mm	28~35 / 35~42 / 42~49 mm	8 mm or less

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Dead locks  
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locks  
Glass door  
locks

Emergency  
locks  
Cup handle  
locks

Sliding  
door locks

▼ Electric locks  
Security systems

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pads

Key switches  
Interlock /  
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door  
systems

Hotel card  
locks

Electric  
locks

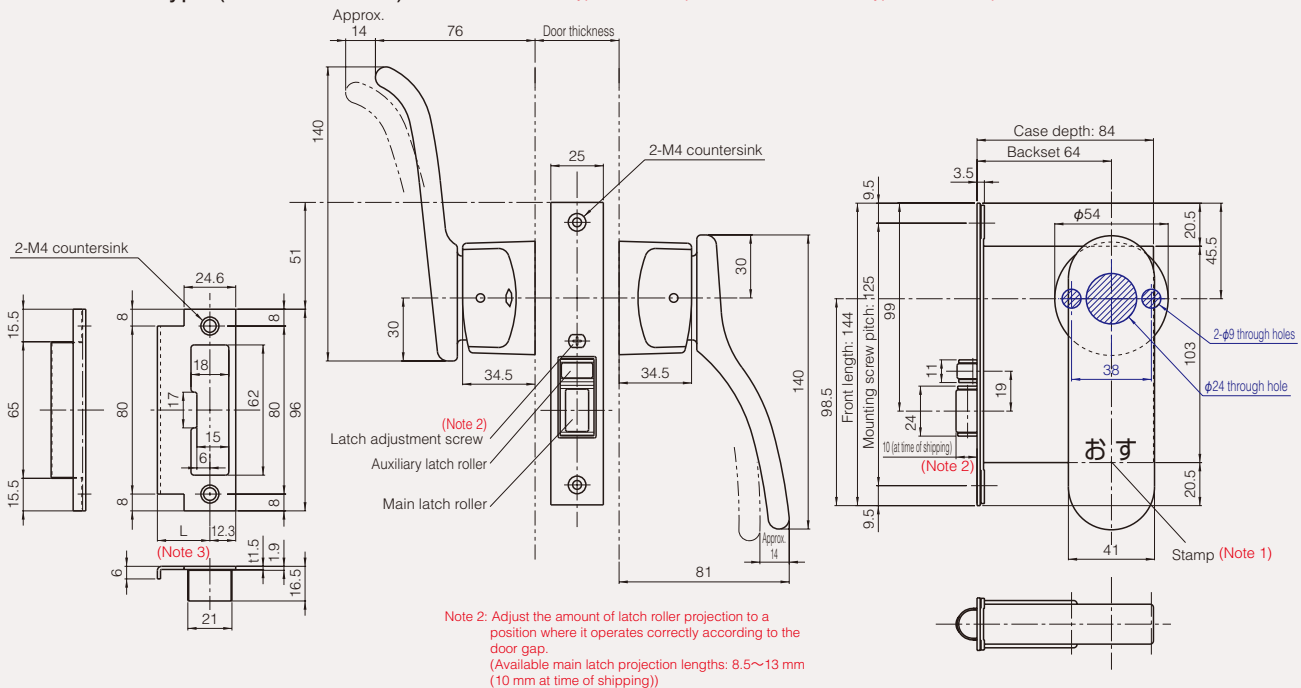
Electrical  
conductors,  
Control  
boxes

Dimensions

■ Dimensions/Notch (Unit: mm)

Door thickness: ## mm or more~less than ## mm

● PYS No. 1 type (backset 64 mm) **Note 1:** The PYS No. 1 type has a stamp on the handle. The PYS type has no stamp.



(Note 3)

■ Strike plate lip (L) dimension

For single leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
28~33	20L	20
33~40	25L	25
40~47	30L	30

\* Indicate the door thickness when ordering.

For double leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
29~33	16L (double)	16
33~37	18L (double)	18
37~42	20L (double)	20
43~47	23L (double)	23

⚠ Precautions when selecting a strike plate

The strike plate shown in the table at left is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount.

Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.





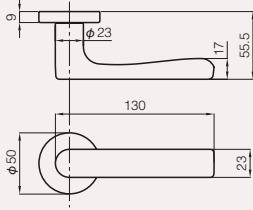
# List of lever handles (1/2) (Lever handle locks AHL, LG, LX, HL series, electric locks EU, ELSF, ELM series, others)

Note 1: Models indicated with (R, L) have handle shapes that are vertically asymmetric and have lever handle handing (R-hand, L-hand).  
(For the relationship between handle direction (hand) and corresponding door direction (hand), refer to the illustration on P.28.)  
2: When using a handle marked with \*, there is the risk that depending on the conditions of use, the end of the handle shaft may contact the frame. Check the detailed handle dimensions and the path when the door opens and closes.  
In particular be sure to check when using a lever handle lock with small backset (LG, LX with a/s 32 mm and 38 mm, and LY with a/s 32 mm).  
3: KSA, KSB, and KSC types can be used with a backset of 51 mm or more.

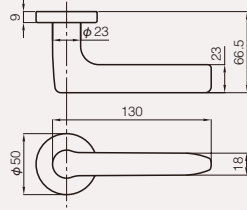
## ■ Dimensions (Unit: mm)

### ● Stainless steel handles (Rose is R4U rose.)

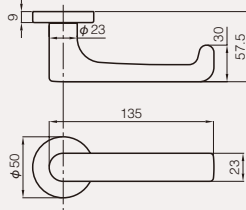
#### NU type



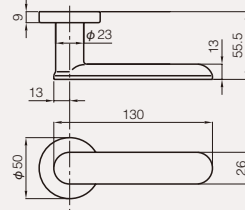
#### KU type



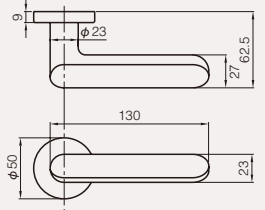
#### TU type



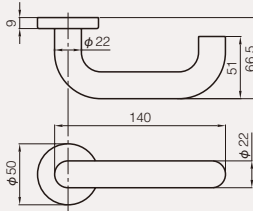
#### ZU type \* (Note 2)



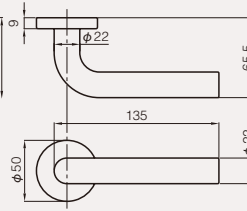
#### COMU type (R, L) (Note 1)



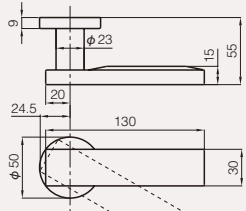
#### DU type



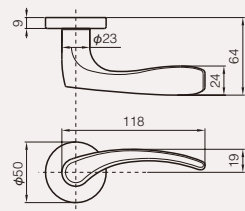
#### JUPU type



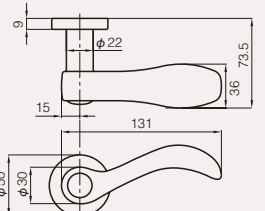
#### ORIU type \* (Note 2)



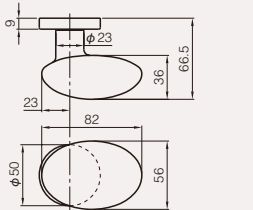
#### LWINU type (R, L) (Note 1)



#### DBRU type (R, L) \* (Note 1, 2)

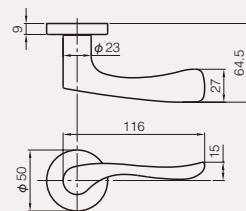


#### KIAU type \* (Note 2)

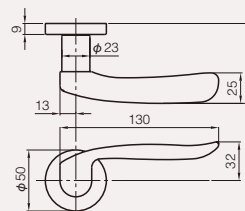


### ● Aluminum handles (Rose is R4U rose except for ST handle.)

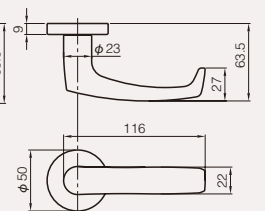
#### AU type (R, L) (Note 1)



#### ATLU type (R, L) \* (Note 1, 2)

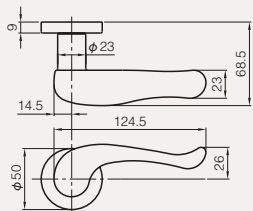


#### BU type

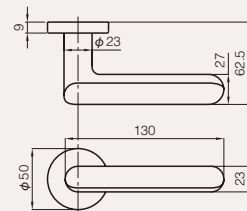


### ● Aluminum handles (Rose is R4U rose except for ST handle.)

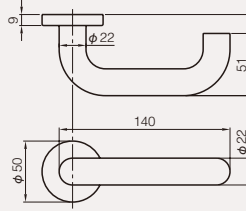
#### BRKU type (R, L) \* (Note 1, 2)



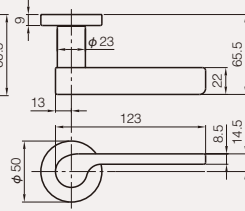
#### COMU type (R, L) (Note 1)



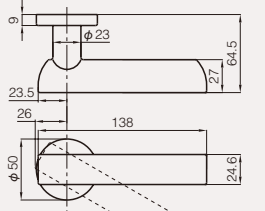
#### DU type



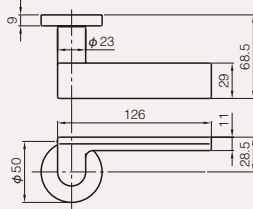
#### EU type (R, L) \* (Note 1, 2)



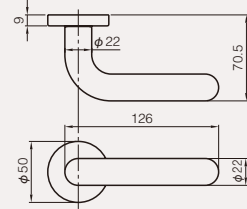
#### GOK type \* (Note 2)



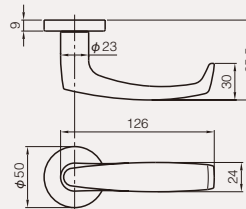
#### HU type (R, L) \* (Note 1, 2)



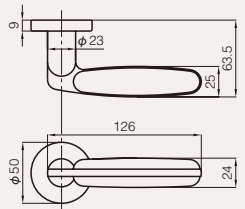
#### JU type



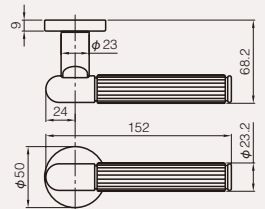
#### LBU type



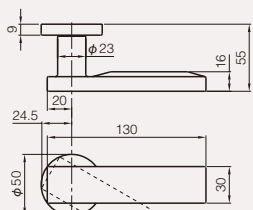
#### NFA type



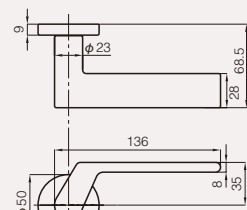
#### OBYU type \* (Note 2)



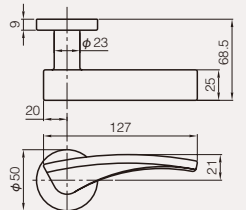
#### ORIU type \* (Note 2)



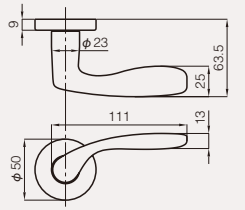
#### PU type (R, L) (Note 1)



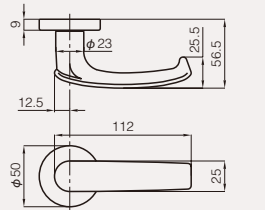
#### PASU type (R, L) \* (Note 1, 2)



#### ROAU type (R, L) (Note 1)



#### ROBU type \* (Note 2)







# List of lever handles (2/2) (Lever handle locks AHL, LG, LX, HL series, electric locks EU, ELSF, ELM series, others)

Note 1: Models indicated with (R, L) have handle shapes that are vertically asymmetric and have lever handle handing (R-hand, L-hand).

(For the relationship between handle direction (hand) and corresponding door direction (hand), refer to the illustration on P.28.)

2: When using a handle marked with \*, there is the risk that depending on the conditions of use, the end of the handle shaft may contact the frame. Check the detailed handle dimensions and the path when the door opens and closes.

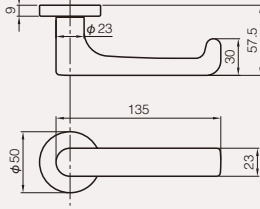
In particular be sure to check when using a lever handle lock with small backset (LG, LX with a/s 32 mm and 38 mm, and LY with a/s 32 mm).

3: KSA, KSB, and KSC types can be used with a backset of 51 mm or more.

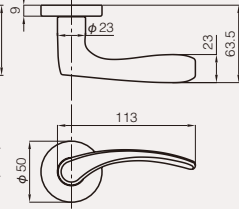
## ■ Dimensions (Unit: mm)

### ● Aluminum handles (Rose is R4U rose except for ST handle.)

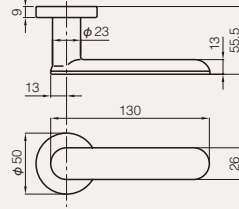
#### TU type



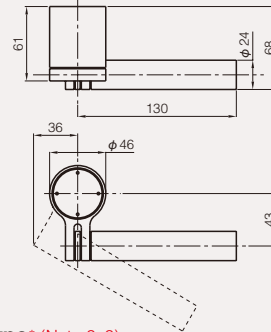
#### WINU type (R, L) (Note 1)



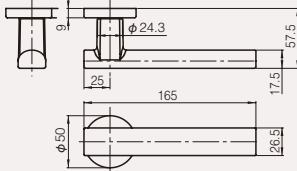
#### ZU type \* (Note 2)



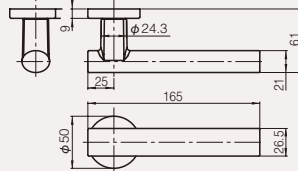
#### ST type (Special rose) (R, L) \*(Note 1, 2)



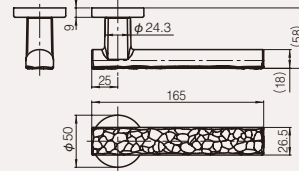
#### KSA type \* (Note 2, 3)



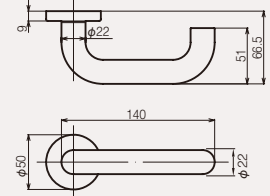
#### KSB type \* (Note 2, 3)



#### KSC type \* (Note 2, 3)

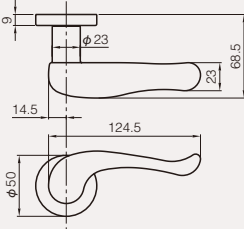


### ● Anti-bacterial lever handles DU11-9S type (Stainless steel) (\* Rose is R4U rose.)

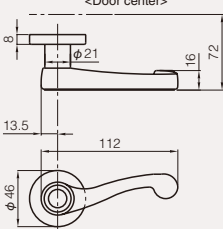


### ● Brass handles (Rose is R3 rose for PRS and ROL handles, and is R4U rose for other handles.)

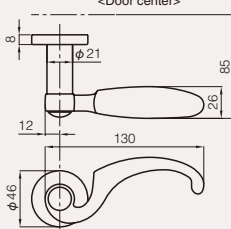
#### BRKU type (R, L) \*(Note 1, 2)



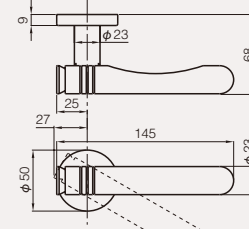
#### PRS type (R, L) \*(Note 1, 2, 4)



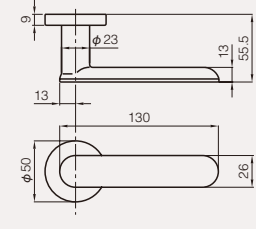
#### ROL type (R, L) \*(Note 1, 2, 4)



#### SWUU type \* (Note 2)



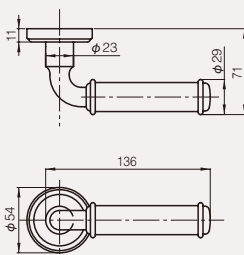
#### ZU type \* (Note 2)



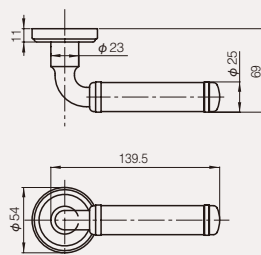
Note 4: Be aware that the method of fastening the handle is different between the R3 rose and the R4U rose.

### ● High class lever handles

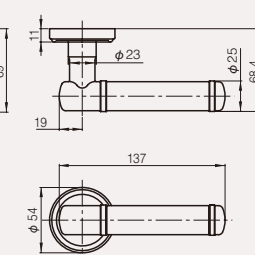
#### DLCU type (R5U rose)



#### GLYU type (R5U rose)

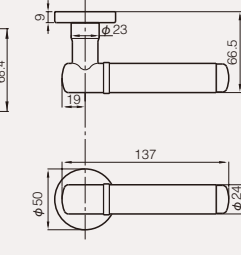


#### HIBU type (R5U rose) \* (Note 2)

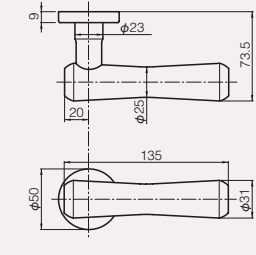


### ● Reinforced wood lever handles (Rose is R4U rose.)

#### PRCU type \* (Note 2)

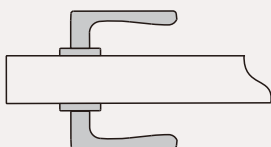


#### RNT type \* (Note 2)



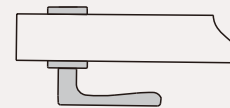
<Fixed handles are also available. > (\* Illustration shows an NU lever handle, however various types of handles are available.)

### ● Fixed handle on both sides



### ● Fixed handle on one side (special orders)

There is a dummy rose on the door inside.



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# Lever handle locks

## AHL, LGK, LGF, LG, LGT, LX series escutcheons

Text P. 29, 30

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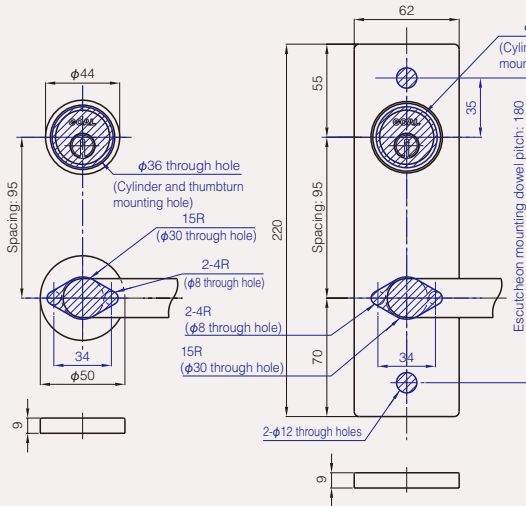
### Dimensions

#### Dimensions/Notch (Unit: mm)

##### Escutcheons for AHL lever handle locks

<Lever handle locks AHL>  
● R4U rose  
(standard specification)

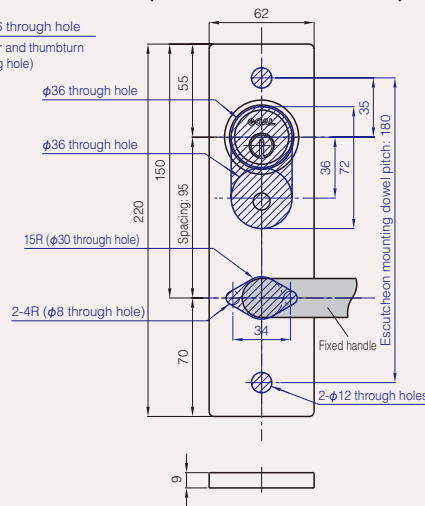
● S1U escutcheon  
(option)



<Hotel locks AHL-9>

● S1U escutcheon

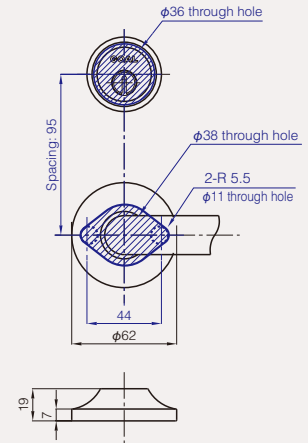
(\* With AHL-9 hotel locks, an S1U escutcheon is the standard specification.)



<Anti-panic locks AHLP>

● ELTP rose

(\* With AHLP anti-panic locks, the rose is a special ELTP rose, and the door notch hole is changed to the notch hole for an NK rose of an EU electric lock. (September 2012))

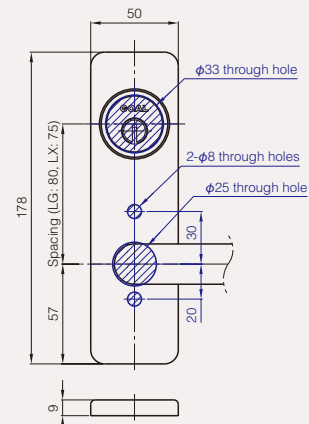
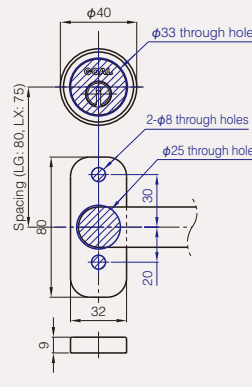
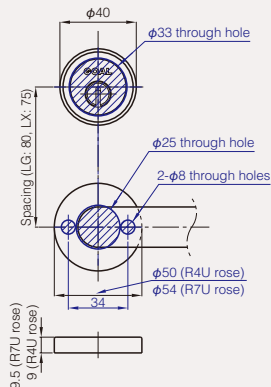


##### Escutcheons for LGK, LGF, LG, LGT, LX lever handle locks

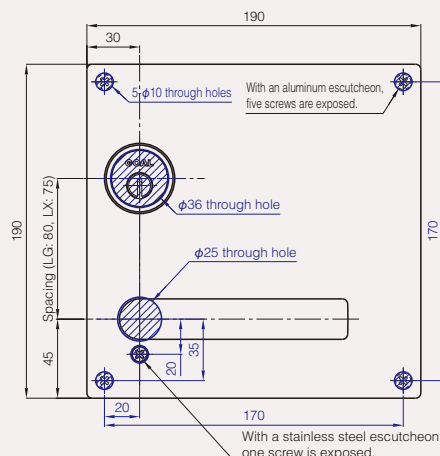
● R4U rose (standard specification)  
(\* Can be used with a backset of 38 mm or more.)

● K1U escutcheon  
(Escutcheon for LG, LX with backset 32 mm)

● N1U escutcheon (option)  
(\* Can be used with a backset of 38 mm or more.)



● N5U escutcheon (option) (Stainless steel: t2.0 Aluminum: t3.0) (\* Can be used with a backset of 51 mm or more.)





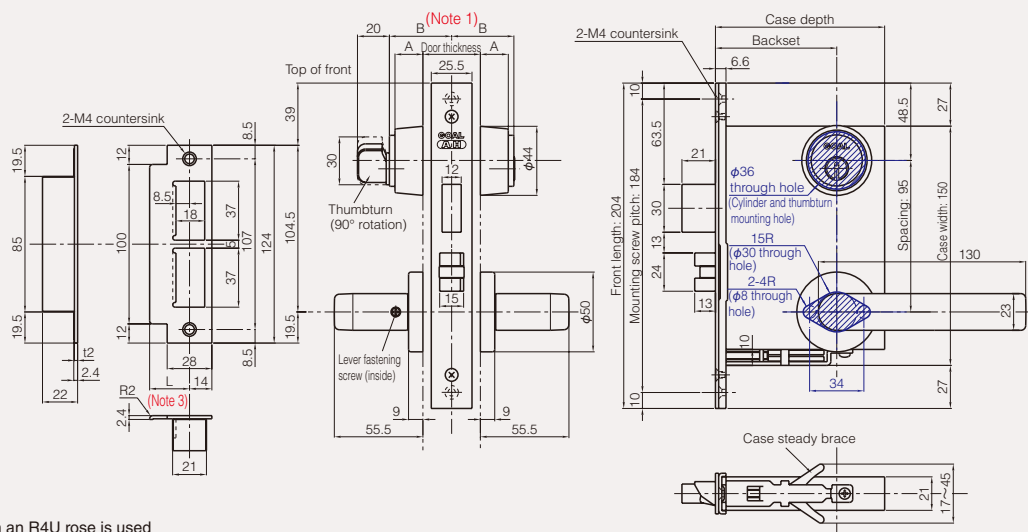
Model	Backset	Compatible cylinders	Model No.	Door thickness (Contact GOAL for more information.)
AHL	76 mm 100 mm	GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z] 1, 3, 5, 6, 68, 7, 8 (9: For hotel locks, refer to P.31)	When R4U rose is used: 35~42.5 / 42.5~50 mm When S1U escutcheon is used: 33~38 / 38~43 / 43~48 / 48~53 mm

Door thickness: ## mm or more~less than ## mm

**■ Dimensions/Notch** (Unit: mm) (The model No. 6, 68, 8 notches are the same as No. 5 in the illustration. However with No. 3 and 7, there is a mounting hole for the cylinder and thumbturn on one side only. For No. 1, there is only the lever mounting hole.)

● **V-AHL-5NU (R4U)** (backset 76, 100 mm) <Illustration shows example using a V18 cylinder, NU lever handle, R4U rose. >

\* In addition to the NU lever handle shown in the illustration, various other types are available.  
(Refer to P.88, 89.)

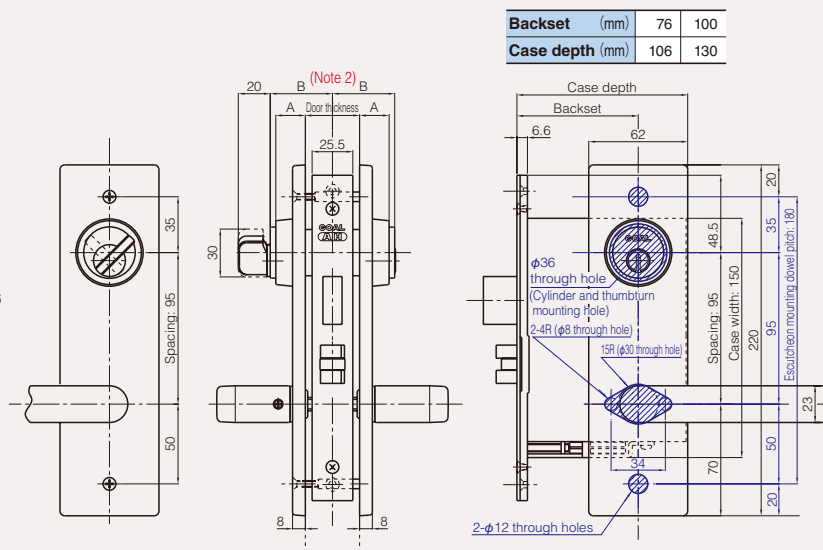


(Note 1) When an R4U rose is used

**■ Dimensions A and B for cylinders and thumbturns**

Door thickness (mm)	Dimension (mm)	
	A (Collar height)	B (Cylinder and thumbturn height)
35~50	17.5	39
50~63	17.5	46
63~73	22.5	56
73~83	17.5	56

● **V-AHL-5NU (S1U)** <Illustration shows example of using an S1U escutcheon. >



(Note 2) When an S1U escutcheon is used

**■ Dimensions A and B for cylinders and thumbturns**

Door thickness (mm)	Dimension (mm)	
	A (Collar height)	B (Cylinder and thumbturn height)
33~38	22	39
38~43	19.5	39
43~48	17	39
48~53	14.5	39

(Note 3)

**■ Strike plate lip (L) dimension**

Model	Escutcheon used	Door thickness (minimum~less than) mm	Classification	L dimension (mm)
AHL	R4U rose	35~42.5	25L	25
		42.5~50	30L	30
	S1U scutcheon	33~43	25L	25
		43~53	30L	30

\* Indicate the door thickness when ordering.

### ⚠ Precautions when selecting a strike plate

The strike plate shown in the table above is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount.

Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.

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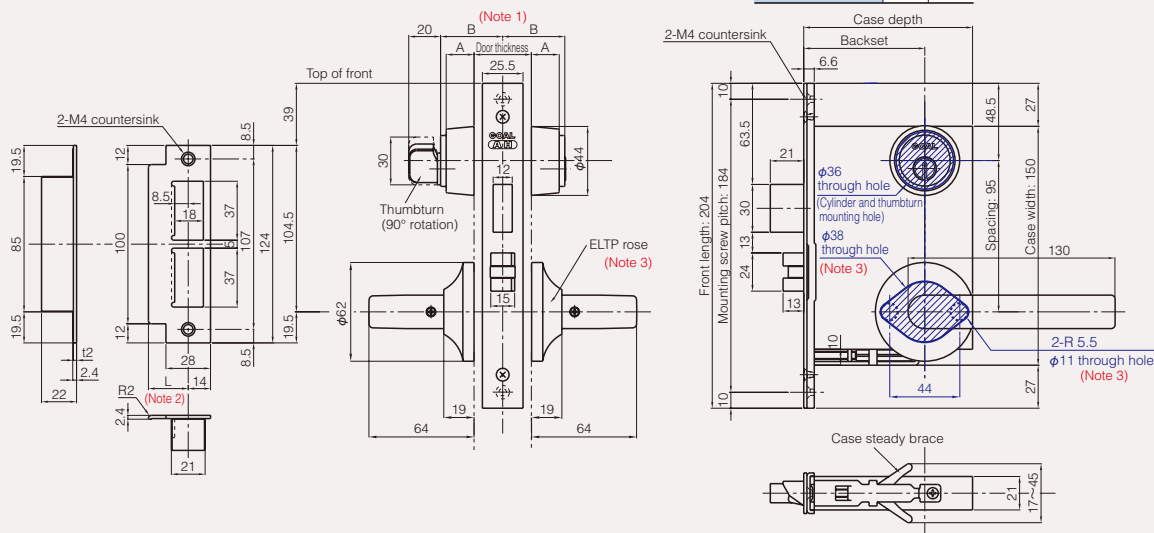
Model	Backset	Compatible cylinders		Model No.	Door thickness (Contact GOAL for more information.)
<b>AHLP</b>	76 mm	GP[GP]	6 pins [P]	5, 7	33~38 / 38~43 / 43~48 / 48~50 / 50~53 mm
	100 mm	V18[V] GV[GV]	7 pins [Z]		

**■ Dimensions/Notch** (Unit: mm) (Model No. 7 has thumbturn and cylinder notch holes on one side only.)

(backset 76, 100 mm) <Illustration shows example of a V18 cylinder, **NU** lever handle, ELTP rose, **R** type for right-hinged out-swinging door. >

\* Be aware that the door notch dimensions are different from AHL.

<b>Backset</b> (mm)	76	100
<b>Case dept</b> (mm)	106	130



Note 3: The ELTP rose notch hole is changed to the notch hole for an NK rose of an EU electric lock.  
(September 2012)

(Note 1)

### ■ Dimensions A and B for cylinders and thumbturns

Door thickness (mm)	Dimension (mm)	
	A (Collar height)	B (Cylinder and thumbturn height)
33~50	17.5	39
50~63	17.5	46
63~73	22.5	56
73~83	17.5	56

(Note 2)

■ **Strike plate lip (L) dimension**

Model	Escutcheon used	Door thickness (minimum~less than) mm	Classification	L dimension (mm)
AHLP	ELTP rose (Special rose)	33~43	25L	25
		43~53	30L	30
		53~63	33L	33

\* Indicate the door thickness when ordering.



# AHL-9

## Lever handle type Hotel locks AHL-9

Compatible cylinders	Model No.	Hand	Backset	Door thickness (Contact GOAL for more information.)	Gap (door and jamb)
GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z]	9 R L	76 mm 100 mm	33~38 / 38~43 / 43~48 / 48~53 mm	6 mm or less

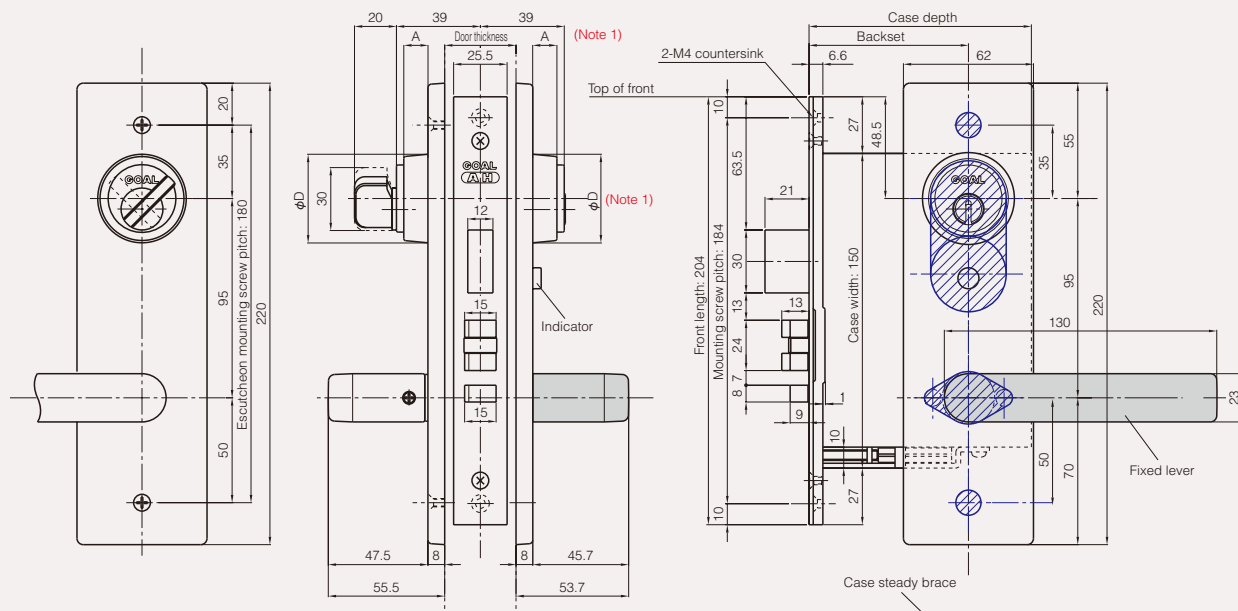
Door thickness: ## mm or more~less than ## mm

### ■ Dimensions/Notch (Unit: mm)

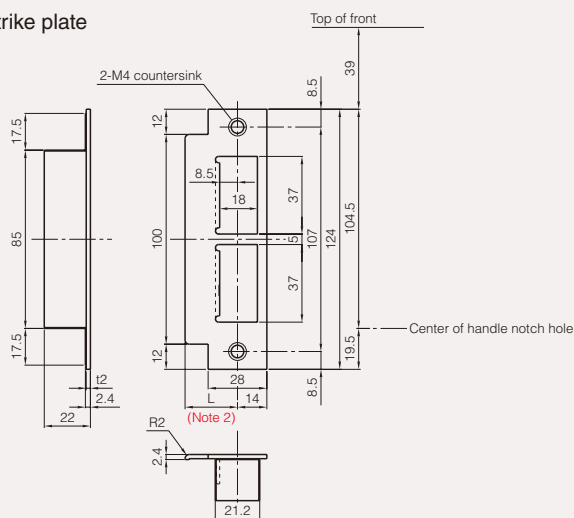
#### ● V-AHL-9NU (S1U) (R) <Illustration shows a V18 cylinder, NU lever handle, S1U escutcheon, R type for left-hinged in-swinging door.>

\* The S1U escutcheon is provided as standard.

Backset (mm)	76	100
Case depth (mm)	106	130



#### ● Strike plate



(Note 2)

#### ■ Strike plate lip (L) dimension

##### For single leaf door ⚠

Door thickness (minimum~less than) mm	Classification	L dimension (mm)
33~43	25L	25
43~53	30L	30

##### For double leaf door

Door thickness (minimum~less than) mm	Classification	L dimension (mm)
33~38	18L	18
38~43	20L	20
43~48	23L	23
48~53	25L	25

\* Indicate the door thickness when ordering.

(Note 1)

#### ■ Dimensions A and D for cylinders and thumbturns

Door thickness (mm)	Dimension (mm)	
	A (Collar height)	φD (Collar diameter)
33~38	14.0	42.6
38~43	11.5	42.1
43~48	9.0	41.7
48~53	6.5	41.2

#### ⚠ Precautions when selecting a strike plate

The strike plate shown in the table at left is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount.

Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.

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### Dimensions



Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z] 1,3,33, 4,45 (Note 5) 5,6,7	(Note 4) 32,38,51 64,76 mm	29~33 / 33~43 / 43~53 mm

Door thickness: ## mm or more~less than ## mm

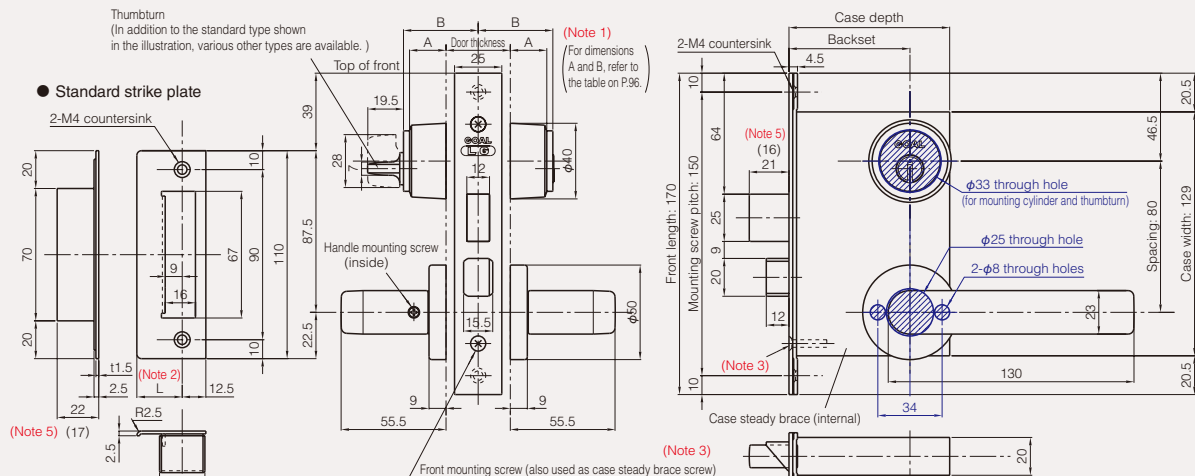
● **Dimensions/Notch** (Unit: mm) (The model No. 33, 4, 45, 6 notches are the same as No. 5 in the illustration. However for No. 3 and 7, there is a mounting hole for the cylinder and thumbturn on one side only. For No. 1, there is only the lever mounting hole.)

● **V-LG-5NU (R4U)** (backset 38, 51, 64, 76 mm) <Illustration shows a V18 cylinder, **NU** lever handle, **R4U** rose. >

\* In addition to the NU lever handle shown in the illustration, various other types are available. (Refer to P.88, 89.) In addition to the R4U rose (standard type) shown in the illustration, various other escutcheons are available. (Refer to P.90.)

\* In addition to the standard type front shown in the illustration, various other types are available.

Backset (mm)	38	51	64	76
Case depth (mm)	56	72	85	97



Note 3: Because the case steady brace becomes effective when this screw is tightened, tighten this screw last.

Note 4: With backset 32 mm, the escutcheon is a K1U escutcheon. The deadbolt throw is also 16 mm and the strike box depth is 17 mm.

Note 5: With the LG-4 and 45 in-room partition locks, the deadbolt throw is 16 mm and the strike box depth is 17 mm.

With backset 76 mm, the deadbolt throw is 21 mm and the strike box depth is 22 mm.

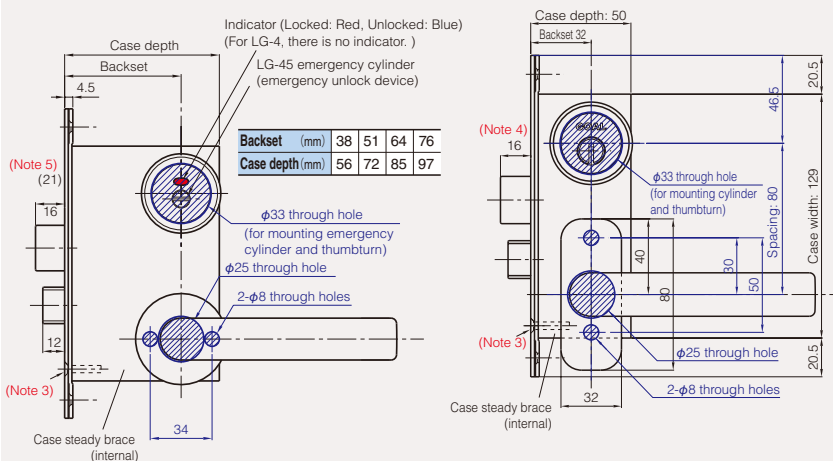
● **Partition locks LG-4, 45NU (R4U)** (backset 38, 51, 64, 76 mm) (Note 5)

\* Backset 32 mm is also available, however the escutcheon is a K1U escutcheon. (Note 4)

\* LG-45VF with large indicator is also available.

● **V-LG-5NU (K1U)** (backset 32 mm) (Note 4)

<Illustration shows a V18 cylinder, **NU** lever handle, **K1U** escutcheon.>



(Note 2)

### Strike plate lip (L) dimension

For single leaf door ⚠			For double leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)	Door thickness (minimum~less than) mm	Classification	L dimension (mm)
29~33	20L	20	29~33	16L	16
33~38	24L	24	33~37	18L	18
38~43			37~41	20L	20
43~48	30L	30	41~45	22L	22
48~53			45~49	24L	24
53~58	34L	34	49~53	26L	26
58~63			53~57	28L	28
			57~61	30L	30
			61~65	32L	32

### ⚠ Precautions when selecting a strike plate

The strike plate shown in the table above is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount.

Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.



# ND cylinders with indicator function

## Lever handle locks LG

Compatible cylinders	Model No.	Hand	Backset	Door thickness (Contact GOAL for more information.)
GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z]	5	R type L type	51, 64, 76 mm
				29~33 / 33~43 / 43~53 mm

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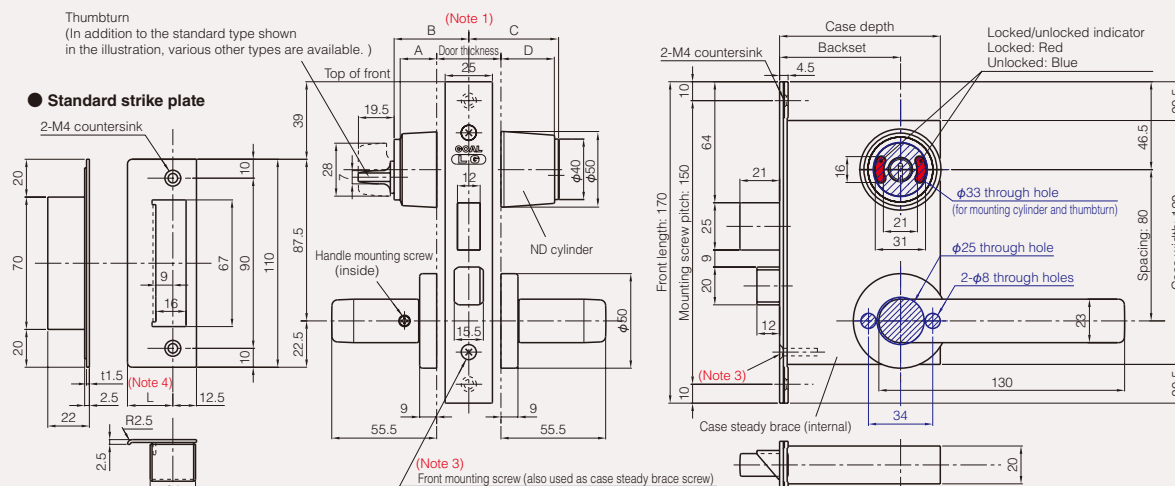
Dimensions

### ■ Dimensions/Notch (Unit: mm)

Door thickness: ## mm or more~less than ## mm

#### ● V-LG-5NU (R) (ND) (backset 51, 64, 76 mm) <Illustration shows an ND cylinder of a V18 cylinder, NU lever handle, R type. > (Note 2)

- \* Use an ND cylinder with a lock backset of 51 mm or more.
- \* In addition to the V18 cylinder shown in the illustrations, GP, GV, 6-pin, and 7-pin ND cylinders are also available.
- \* In addition to the NU lever handle shown in the illustration, various other types are available. (Refer to P.88, 89.)
- \* In addition to the standard type front shown in the illustration, various other types are available.



Note 3: Because the case steady brace becomes effective when this screw is tightened, tighten this screw last.

(Note 1)

#### ■ Dimensions A, B, C, and D for cylinders and thumbturns

Door thickness (mm)	Dimension (mm)			
	A (Thumbturn collar height)	B (Thumbturn height)	C (ND cylinder height)	D (ND cylinder collar height)
29~43	19.5	38.5	55	35.5
43~53	14.5	38.5	65	35.5

(Note 4)

#### ■ Strike plate lip (L) dimension

For single leaf door			For double leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)	Door thickness (minimum~less than) mm	Classification	L dimension (mm)
29~33	20L	20	29~33	16L	16
33~38	24L	24	33~37	18L	18
38~43			37~41	20L	20
43~48	30L	30	41~45	22L	22
48~53			45~49	24L	24
			49~53	26L	26

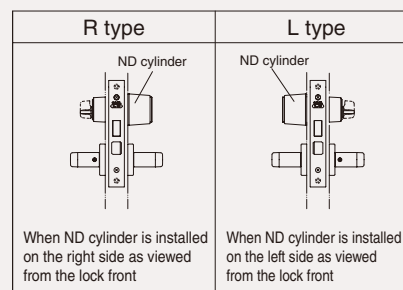
#### ⚠ Precautions when selecting a strike plate

The strike plate shown in the table above is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount.

Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.

(Note 2)

#### ■ ND cylinder direction (hand)





## Lever handle locks LGK (hooked deadbolt)

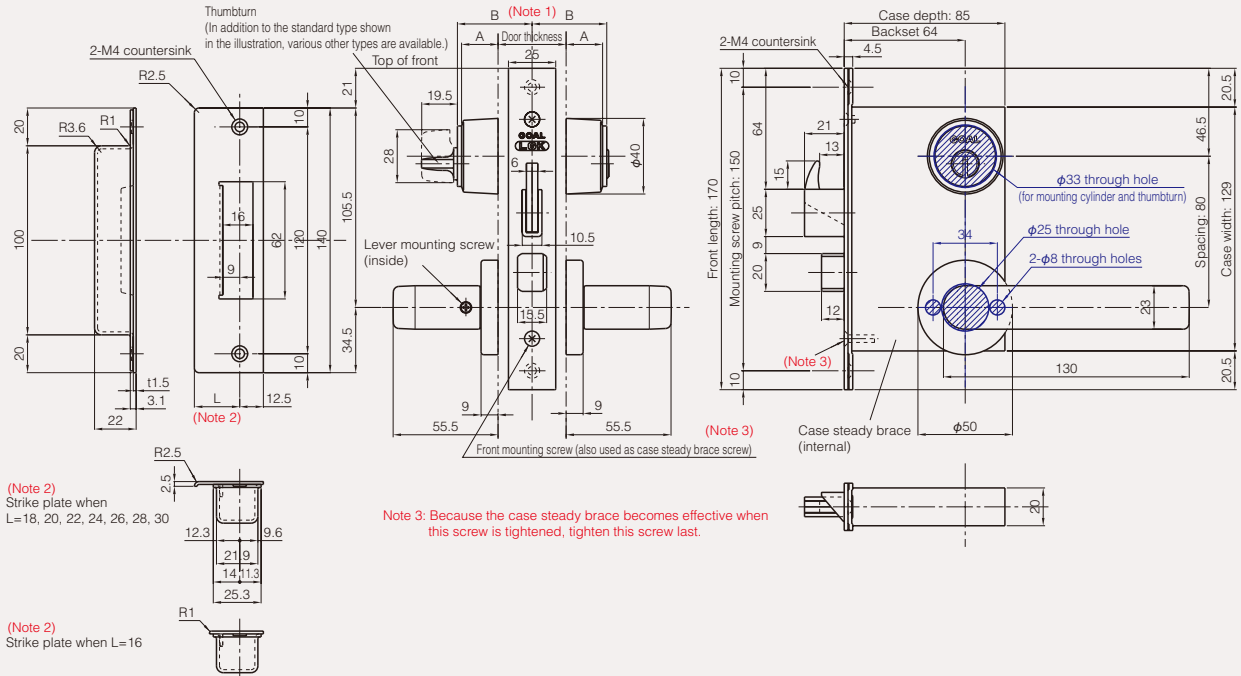
Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z] 3,5,6,7	64 mm	29~33 / 33~43 / 43~53 mm (Gap: 6 mm or less)

**■ Dimensions/Notch** (Unit: mm) (The model No. 6 notch is the same as No. 5 in the illustration. However for No. 3 and 7, there is a mounting hole for the cylinder and thumbturn on one side only.)

● **V-LGK-5NU (R4U)** (backset 64 mm) <Illustration shows a V18 cylinder, NU lever handle, R4U rose. >

\* In addition to the NU lever handle shown in the illustration, various other types are available. (Refer to P.88, 89.) In addition to the R4U rose (standard type) shown in the illustration, various other escutcheons are available. (Refer to P.90.)

\* In addition to the standard type front shown in the illustration, various other types are available.



(Note 2) **■ Strike plate lip (L) dimension**

For single leaf door ⚠		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
29~33	20L	20
33~38	24L	24
38~43		
43~48	30L	30
48~53		

For double leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
29~33	16L	16
33~37	18L	18
37~41	20L	20
41~45	22L	22
45~49	24L	24
49~53	26L	26

(Note 1) **■ Dimensions A and B for cylinders and thumbturns**

Door thickness (mm)	Dimension (mm)	
	A (Collar height)	B (Cylinder and thumbturn height)
29~43	19.5	38.5
43~53	14.5	38.5
53~63	19.5	48.5
63~73	14.5	48.5
73~83	19.5	58.5

⚠ **Precautions when selecting a strike plate**

The strike plate shown in the table above is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount.

Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.

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## Lever handle locks

**LGF** (hooked deadbolt, latch with anti-friction latch bolt)

Compatible cylinders		Model No.	Backset	Door thickness (Contact GOAL for more information.)
GP[GP]	6 pins [P]	1,3,33	64 mm 76 mm	29~33 / 33~43 / 43~53 mm
V18[V]	7 pins [Z]	4,45 (Note 4)		
GV[GV]		5,6,7		

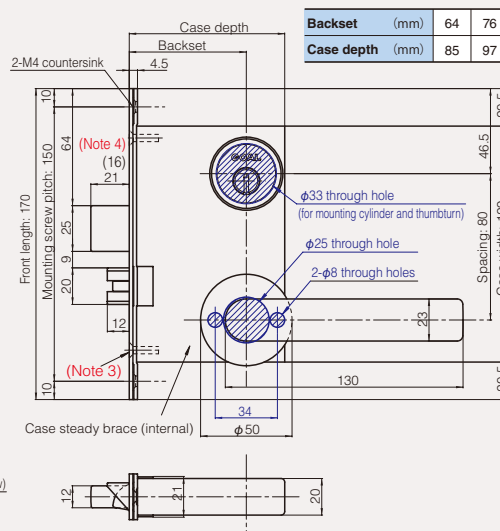
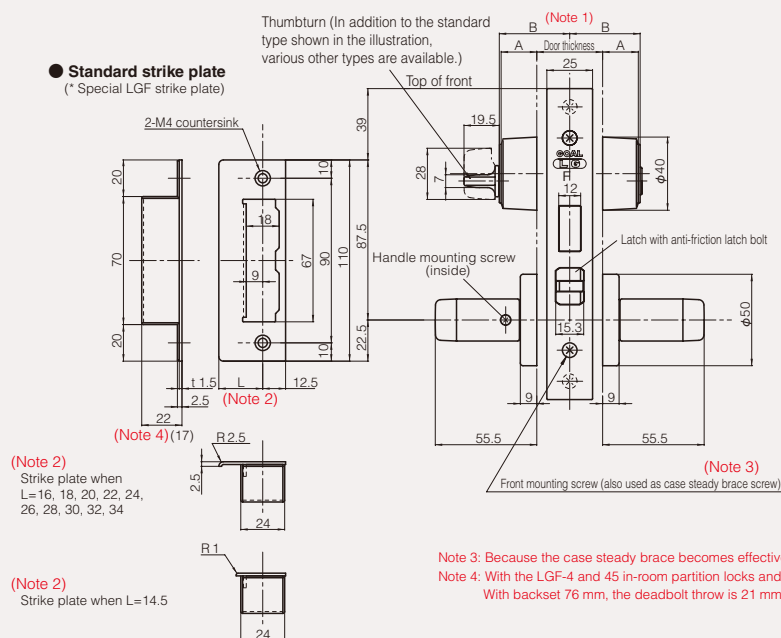
Door thickness: ## mm or more~less than ## mm

**■ Dimensions/Notch** (Unit: mm) (The model No. 33, 4, 45, 6 notches are the same as No. 5 in the illustration.)

However create a thumbturn mounting hole (No. 3) or cylinder mounting hole (No. 7) on one side only. For No. 1, there is only the lever mounting hole.)

● **V-LGF-5NU (R4U)** (backset 64, 76 mm) <Illustration shows a V18 cylinder, **NU** lever handle, **R4U** rose. >

\* In addition to the NU lever handle shown in the illustration, various other types are available. (Refer to P.88, 89.) In addition to the R4U rose (standard type) shown in the illustration, various other escutcheons are available. (Refer to P.90.)



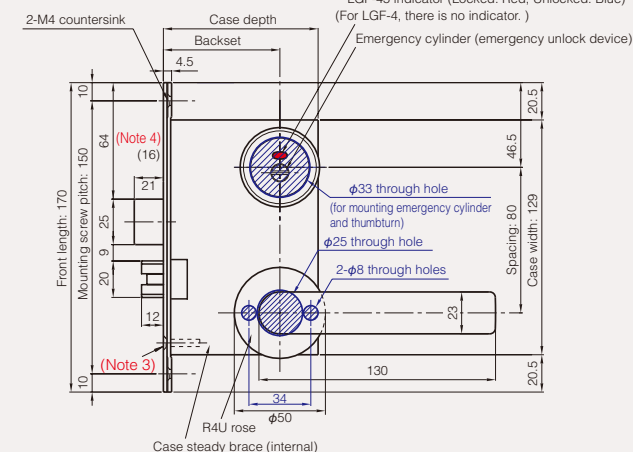
Note 3: Because the case steady brace becomes effective when this screw is tightened, tighten this screw last

Note 4: With the LGF-4 and 45 in-room partition locks and backset 64 mm only, the deadbolt throw is 16 mm and the strike box depth is 17 mm. With backset 76 mm, the deadbolt throw is 21 mm only.

- Partition locks LGF-4. 45

<b>Backset</b> (mm)	64	76
<b>Case depth</b> (mm)	85	97

LGF-45 indicator (Locked: Red, Unlocked: Blue)  
(For LGF-4, there is no indicator.)




(Note 1)

**■ Dimensions A and B for cylinders and thumbturns**

Door thickness (mm)	Dimension (mm)	
	A (Collar height)	B (Cylinder and thumbturn height)
29~43	19.5	38.5
43~53	14.5	38.5
53~63	19.5	48.5
63~73	14.5	48.5
73~83	19.5	58.5

(Note 2)

■ **Strike plate lip (L) dimension**

For single leaf door 		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
29~33	20L	20
33~38	24L	24
38~43		
43~48	30L	30
48~53		

For double leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
29~33	16L	16
33~37	18L	18
37~41	20L	20
41~45	22L	22
45~49	24L	24
49~53	26L	26
53~57	28L	28
57~61	30L	30
61~65	32L	32
65~69	34L	34

### Precautions when selecting a strike plate

The strike plate shown in the table above is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount.

Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.

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Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z]	3, 5, 6, 7	51, 64 mm
			29~33 / 33~43 / 43~53 mm

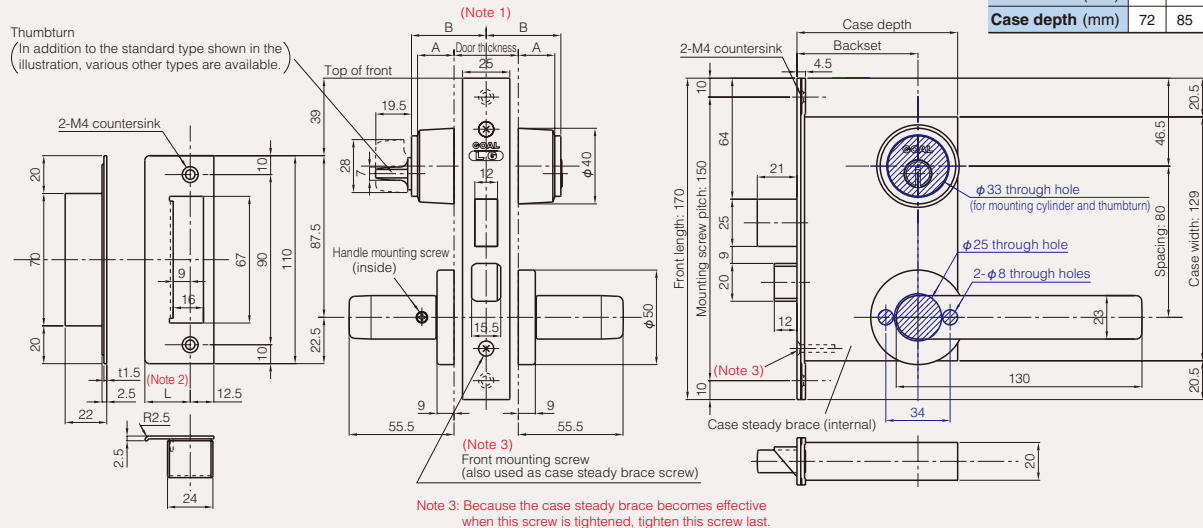
Door thickness: ## mm or more~less than ## mm

### ■ Dimensions/Notch (Unit: mm) (The model No. 6 notch is the same as No. 5 in the illustration. However for No. 3 ) (and 7, there is a mounting hole for the cylinder and thumbturn on one side only.)

#### ● V-LGT-5NU(R4U) (backset 51, 64, mm) <Illustration shows a V18 cylinder, NU lever handle, R4U rose.>

\* In addition to the NU lever handle shown in the illustration, various other types are available. (Refer to P.88, 89.) In addition to the R4U rose (standard type) shown in the illustration, various other escutcheons are available. (Refer to P.90.)

\* In addition to the standard type front shown in the illustration, various other types are available.



Note 3: Because the case steady brace becomes effective when this screw is tightened, tighten this screw last.

(Note 2)

#### ■ Strike plate lip (L) dimension

For single leaf door ⚠		
Door thickness (minimum-less than) mm	Classification	L dimension (mm)
29~33	20L	20
33~38	24L	24
38~43		
43~48	30L	30
48~53		
53~58	34L	34
58~63		

For double leaf door		
Door thickness (minimum-less than) mm	Classification	L dimension (mm)
29~33	16L	16
33~37	18L	18
37~41	20L	20
41~45	22L	22
45~49	24L	24
49~53	26L	26
53~57	28L	28
57~61	30L	30
61~65	32L	32

(Note 1)

#### ■ Dimensions A and B for cylinders and thumbturns

Door thickness (mm)	Dimension (mm)	
	A (Collar height)	B (Cylinder and thumbturn height)
29~43	19.5	38.5
43~53	14.5	38.5
53~63	19.5	48.5
63~73	14.5	48.5
73~83	19.5	58.5

#### ⚠ Precautions when selecting a strike plate

The strike plate shown in the table above is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount.

Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.



Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z] 5, 6, 7	1, 3, 33 4, 45 (Note 5) 32, 38, 51, 64 mm	29~33 / 33~43 / 43~53 mm

Door thickness: ## mm or more-less than ## mm

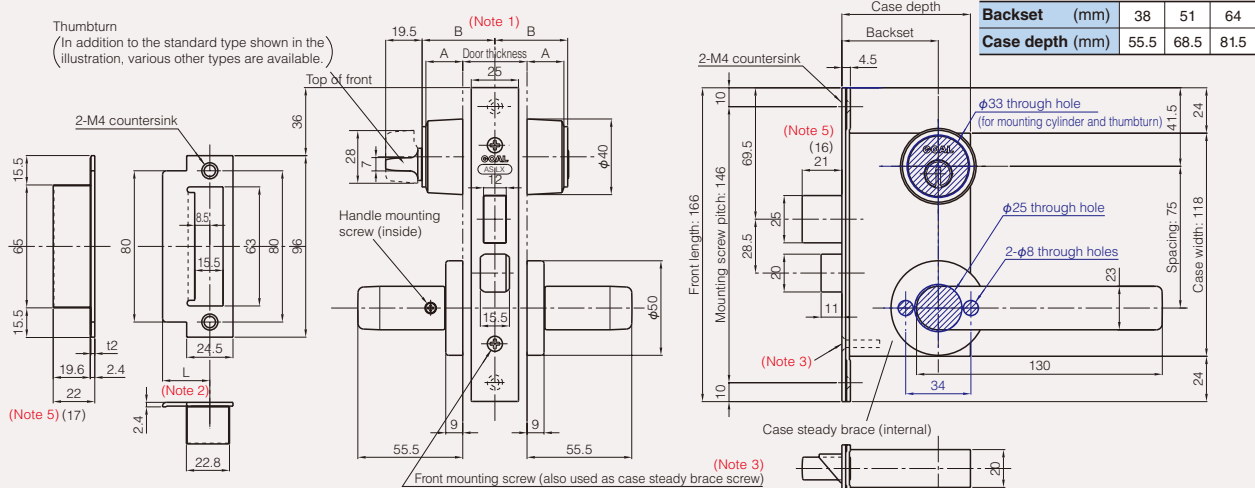
## ■ Dimensions/Notch (Unit: mm)

(The model No. 33, 4, 45, 6 notches are the same as No. 5 in the illustration. However for No. 3 and 7, there is a mounting hole for the cylinder and thumbturn on one side only. For No. 1, there is only the lever mounting hole.)

### ● V-LX-5NU(R4U) (backset 38, 51, 64 mm) <Illustration shows a V18 cylinder, NU lever handle, R4U rose.>

\* In addition to the NU lever handle shown in the illustration, various other types are available. (Refer to P.88, 89.) In addition to the standard rose (R4U rose) shown in the illustration, various other escutcheons are available. (Refer to P.90 for details.)

\* In addition to the standard type front shown in the illustration, various other types are available.



Note 3: Because the case steady brace becomes effective when this screw is tightened, tighten this screw last.

Note 4: With backset 32 mm, the escutcheon is a K1U escutcheon.

Note 5: With the LX-4 and 45 in-room partition locks, the deadbolt throw is 16 mm and the strike box depth is 17 mm.

(Note 2)

## ■ Strike plate lip (L) dimension

For single leaf door ⚠

Door thickness (minimum~less than) mm	Classification	L dimension (mm)
29~33	20L	20
33~43	25L	25
43~53	30L	30

For double leaf door

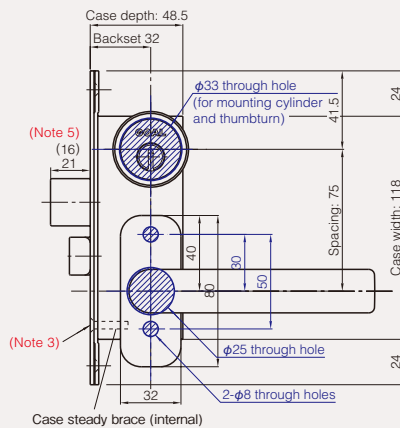
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
29~33	16L	16
33~37	18L	18
37~41	20L	20
41~47	23L	23
47~51	25L	25
51~57	28L	28

## ⚠ Precautions when selecting a strike plate

The strike plate shown in the table above is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount. Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.

### ● V-LX-5NU(K1U) (backset 32 mm) (Note 4)

<Illustration shows a V18 cylinder, NU lever handle, K1U escutcheon.>



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Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z]	7	51 mm 64 mm
			33~43 / 43~53 mm (Gap: 6 mm or less)

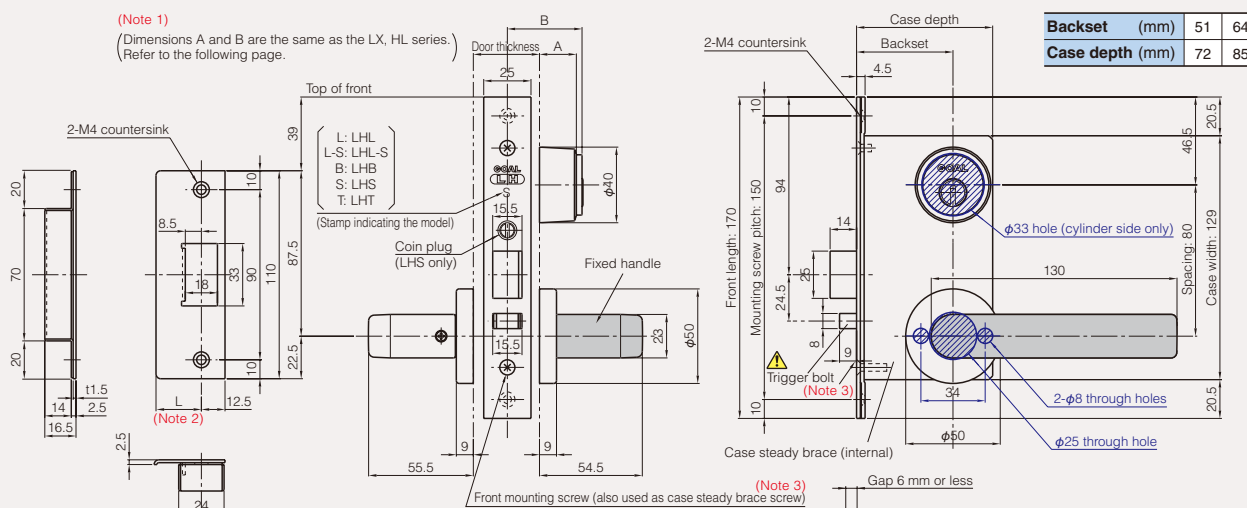
Door thickness: ## mm or more~less than ## mm

### Dimensions/Notch (Unit: mm)

- **V-LHL, LHB, LHS, LHT-7NU(R)** (backset 51, 64 mm)  
<Illustration shows a V18 cylinder, NU lever handle, R type for right-hinged out-swinging door.>

- ⚠ **Precautions:** 1. Be sure to install a door stop so that the door stops in the correct closed position.  
2. For LHL, LHL-S, it is not possible to retract the trigger bolt using the key or the inside handle.  
Be aware that if the door is closed and the trigger bolt enters the frame hole or strike plate hole, it will not be possible to open the door.

\* In addition to the NU lever handle shown in the illustration, various other types are available. (Refer to P.88, 89.)



### Strike plate lip (L) dimension

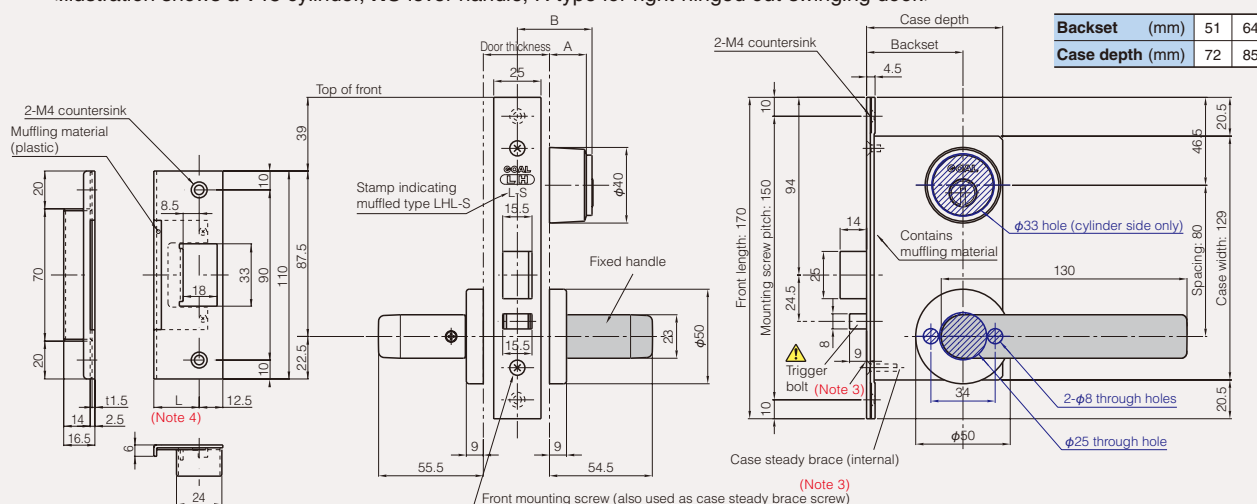
For single leaf door			For double leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)	Door thickness (minimum~less than) mm	Classification	L dimension (mm)
33~38	24L	24	33~37	18L	18
38~43			37~41	20L	20
43~48	30L	30	41~45	22L	22
48~53			45~49	24L	24
			49~53	26L	26

\* The indicated strike plates are set as standard, however strike plates are available with an L dimension in 2 mm increments starting from 18 mm (18L strike plate). Specify the strike plate according to the conditions of the door and frame.

### Precautions when selecting a strike plate

The strike plate shown in the table above is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount.  
Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.

- **V-LHL-S-7NU(R)** (muffled type) (backset 51, 64 mm)  
<Illustration shows a V18 cylinder, NU lever handle, R type for right-hinged out-swinging door.>



Note 4: LHL-S strike plate L dimension  
L=18,20,22,24,26,28

Note 3: Because the case steady brace becomes effective when this screw is tightened, tighten this screw last.



# Lever handle locks HL

## Anti-panic locks HLP

### Automatic locking locks HLT, HLT

⚠ HLP and HLT include products for different directions (hands).

Model	Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)	Gap (door and jamb)
HL, HLT	GP [GP]	6 pins [P]	3,5,6,7	76 mm	6 mm or less
HLP	V18 [V]	7 pins [Z]	3,5,6,7		
HLTP	GV [GV]	7			

#### Dimensions/Notch (Unit: mm)

(The model No. 6 notch is the same as No. 5 in the illustration. However for No. 3) and 7, there is a mounting hole for the cylinder and thumbturn on one side only.)

#### ● V-HL-5NU (backset 76 mm) <Illustration shows a V18 cylinder, NU lever handle. >

\* The HLT external dimensions are the same.

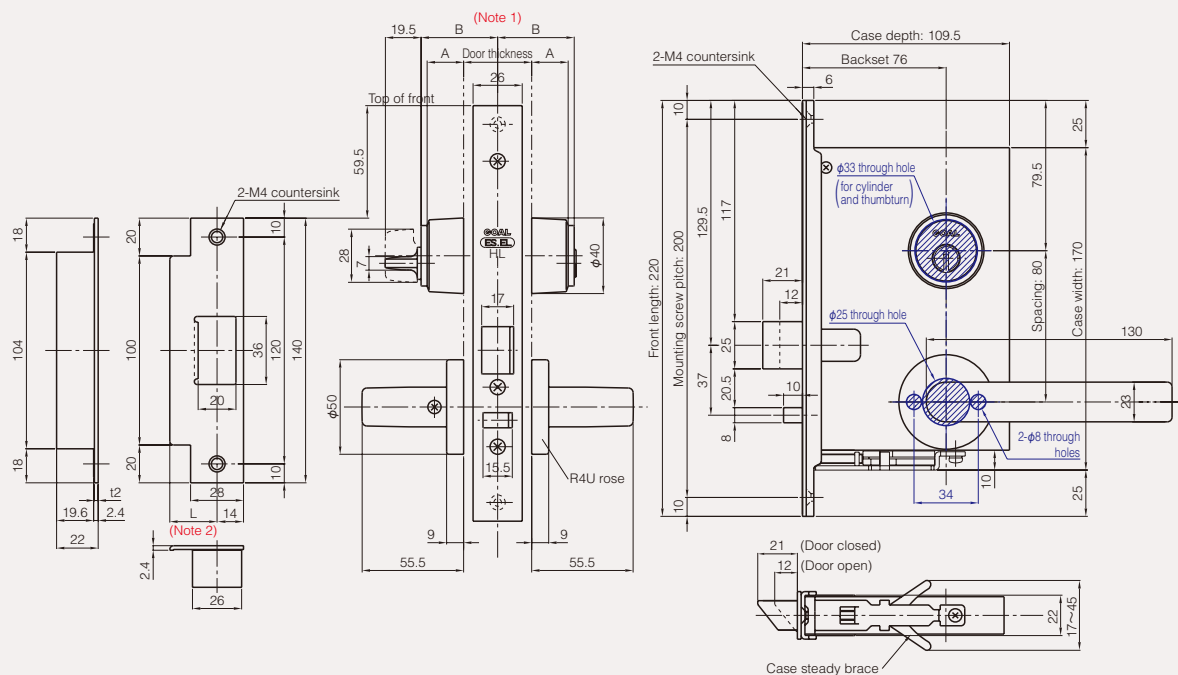
\* In addition to the NU lever handle shown in the illustration, various other types are available. (Refer to P.88, 89.)

Door thickness: ## mm or more-less than ## mm

(Note 1)

#### Dimensions A and B for cylinders and thumbturns

Door thickness (mm)	Dimension (mm)	
	A (Collar height)	B (Cylinder and thumbturn height)
29~43	19.5	38.5
43~53	14.5	38.5
53~63	19.5	48.5
63~73	14.5	48.5
73~83	19.5	58.5



#### ● Anti-panic locks V-HLP-5NU (R)

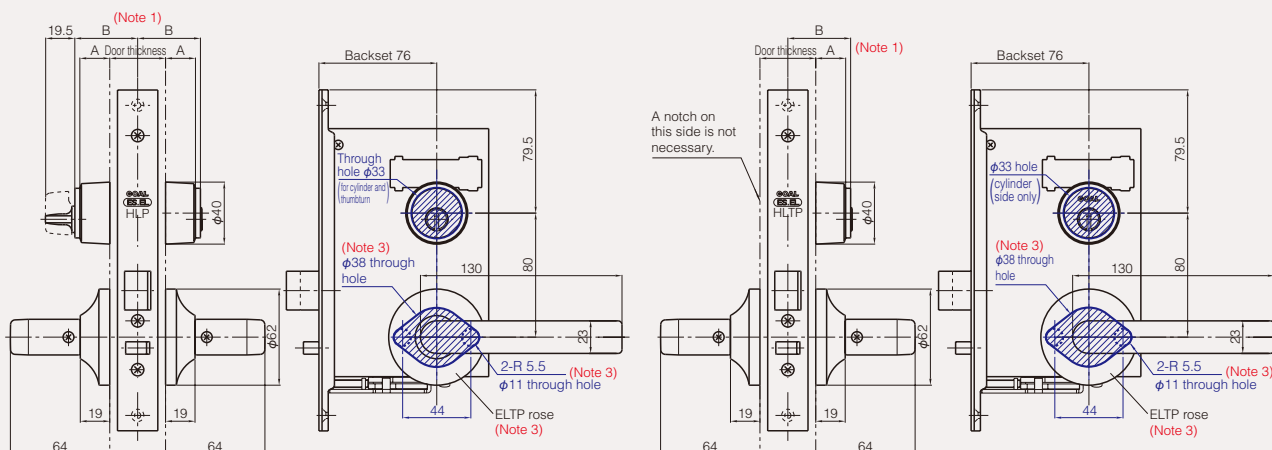
<Illustration shows a V18 cylinder, NU lever handle, R type for right-hinged out-swinging door.>

(\* The notch hole is changed.)

#### ● Anti-panic type automatic locking locks V-HLTP-7NU (R)

<Illustration shows a V18 cylinder, NU lever handle, R type for right-hinged out-swinging door.>

(\* The notch hole is changed.)



(Dimensions not listed are the same as HL, HLT.)

Note 3: The ELTP rose notch hole is changed to the notch hole for an NK rose of an EU function-switching electric lock. (September 2012)

(Note 2)

#### Strike plate lip (L) dimension

For single leaf door ⚠			For double leaf door		
Door thickness (minimum-less than) mm	Classification	L dimension (mm)	Door thickness (minimum-less than) mm	Classification	L dimension (mm)
29~33	20L	20	29~33	16L	16L
33~43	25L	25	33~37	18L	18L
43~53	30L	30	37~42	20L	20L
53~60	33L	33	43~47	23L	23L
			47~51	25L	25L
			53~57	28L	28L
			57~61	30L	30L

#### ⚠ Precautions when selecting a strike plate

The strike plate shown in the table at left is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount. Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.

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# AH AHP

## Mortise locks AH Anti-panic locks AHP

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Model	Compatible cylinders	Model No.	Hand	Backset	Door thickness (Contact GOAL for more information.)
AH	GP [GP] V18 [V]	6 pins [P] 7 pins [Z]	1, 3, 5, 6, 68, 7, 8	76 mm 100 mm	35~50 mm (When S1 escutcheon is used: 35~53 mm)
AHP	GV [GV]	5, 7	R-hand, L-hand*		35~45 / 45~50 mm

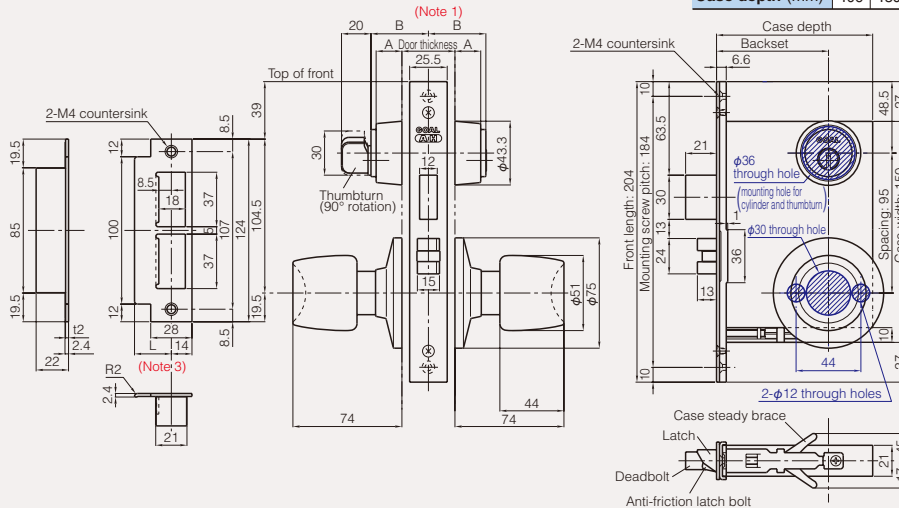
Door thickness: ## mm or more-less than ## mm

**Dimensions/Notch** (Unit: mm) (The model No. 6, 68, 8 notches are the same as No. 5 in the illustration. However for No. 3 and 7, there is a mounting hole for the cylinder and thumbturn on one side only. For No. 1, there is only the knob mounting hole.)

### ● V-AH,AHP-5Q (backset 76, 100 mm) <Illustration shows a V18 cylinder, Q type knob.>

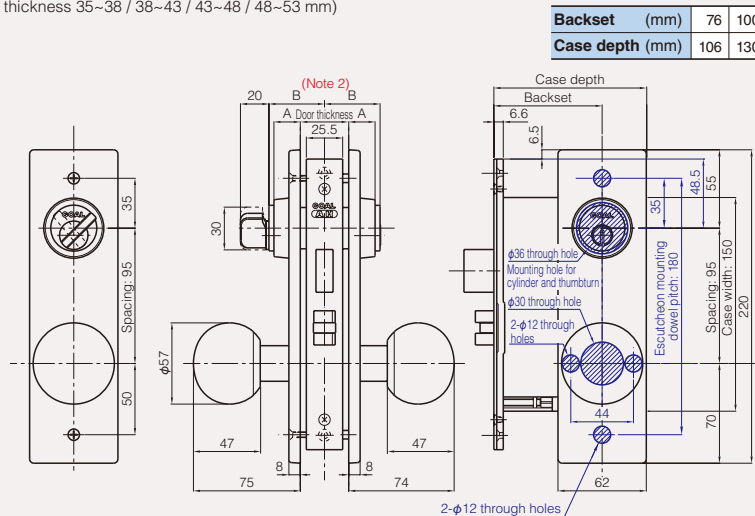
\* The shape and notch dimensions of AHP anti-panic locks are the same as AH, however there are products for lock handing and the door thickness specifications are also different.

\* In addition to the Q type knob shown in the illustration, various other types are available. (Refer to illustration below.)



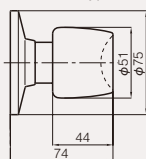
### ● V-AH-5B(S1) <Illustration shows example of using B type knob, S1 escutcheon.>

(Door thickness 35~38 / 38~43 / 43~48 / 48~53 mm)

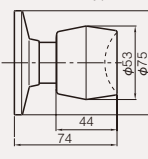


### ● AH, AHP knob (\* AH-82, 84, 85 knobs are Q, Y, K types only.)

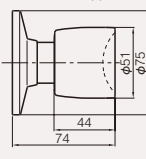
Knob: Q type  
Rose: S-2 type



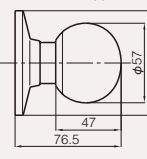
Knob: K type  
Rose: S-2 type



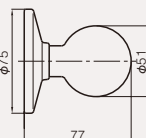
Knob: Y type  
Rose: S-2 type



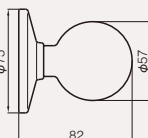
Knob: B type  
Rose: S-2 type



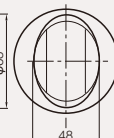
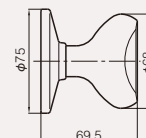
Knob: S type  
Rose: S-8 type



Knob: P type  
Rose: S-8 type



Knob: ORB type  
Rose: S-8 type



(Note 1)

### Dimensions A and B for cylinders and thumbturns

Door thickness (mm)	Dimension (mm)	
	A (Collar height)	B (Cylinder and thumbturn height)
35~50	17.5	39
50~63	17.5	46
63~73	22.5	56
73~83	17.5	56

(Note 2)

### Dimensions A and B for cylinders and thumbturns when S1 escutcheon is used

Door thickness (mm)	Dimension (mm)	
	A (Collar height)	B (Cylinder and thumbturn height)
35~38	22	39
38~43	19.5	39
43~48	17	39
48~53	14.5	39

(Note 3)

### Strike plate lip (L) dimension

For single leaf door

Model	Door thickness (minimum~less than) mm	Classification	L dimension (mm)
AH	35~50	25L	25
AHP	35~45	25L	25
	45~50	30L	30

For double leaf door (AH, AHP)

Door thickness (minimum~less than) mm	Classification	L dimension (mm)
35~37	18L	18
37~42	20L	20
43~47	23L	23
47~51	25L	25
53	28L	28

\* Indicate the door thickness when ordering.

### Precautions when selecting a strike plate

The strike plate shown in the table above is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount.

Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.



**AH-82, 84, 85****Mortise office locks****AH-82, 84** (push-button), **85** (turn-button)

Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
GP [GP]	6 pins [P]	76 mm	35~37.5 / 37.5~42.5 /
V18 [V]	7 pins [Z]	100 mm	42.5~47.5 / 47.5~50 mm
GV [GV]			(Gap: 6 mm or less)

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systemsHotel card  
locksElectric  
locksElectrical  
conductors,  
Control  
boxes

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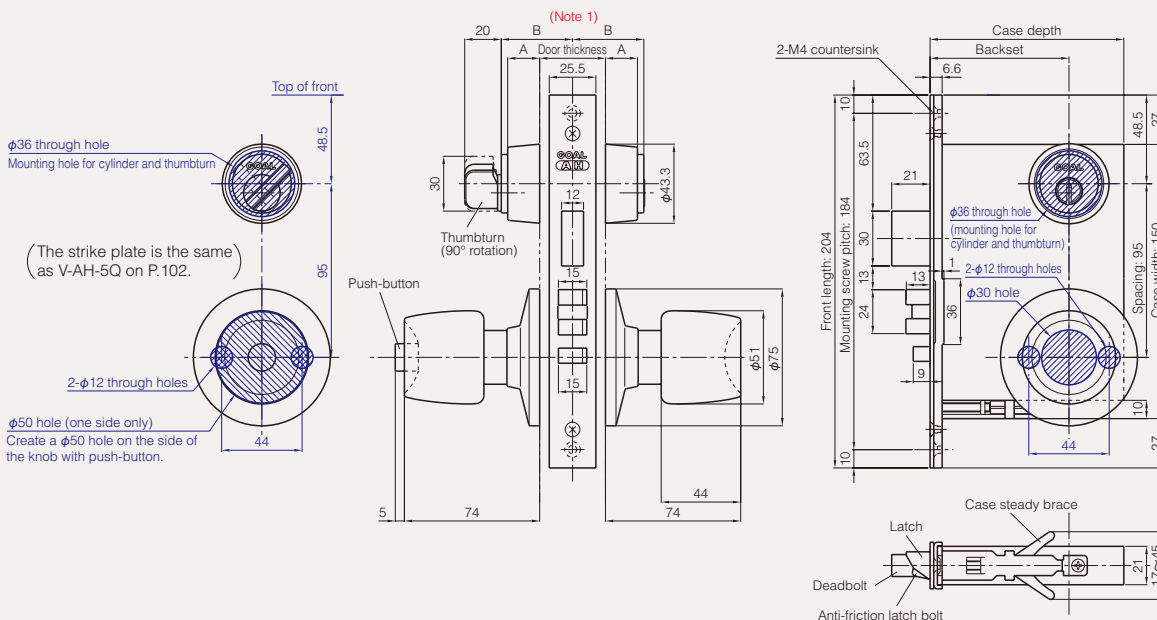
**Dimensions/Notch** (Unit: mm)

Door thickness: ## mm or more-less than ## mm

● **V-AH-82, 84Q** (backset 76, 100 mm) <Illustration shows a V18 cylinder, Q type knob, push-button.>

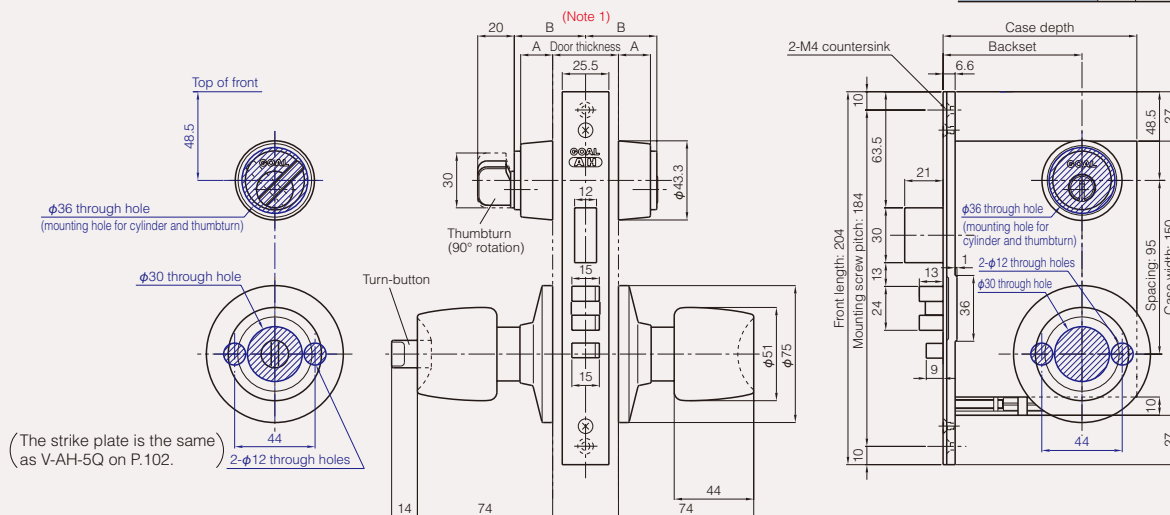
\* AH-82, 84 knobs are Q, Y, K types only.

Backset (mm)	76	100
Case depth (mm)	106	130

● **V-AH-85Q** (backset 76, 100 mm) <Illustration shows a V18 cylinder, Q type knob, turn-button.>

\* AH-85 knobs are Q, Y, K types only.

Backset (mm)	76	100
Case depth (mm)	106	130



Note 2: The strike plate is the same as the AH series on P.102,  
however refer to the table below for the lip (L) dimension.

(Note 1)

**Dimensions A and B for cylinders and thumbturns**

Door thickness (mm)	Dimension (mm)	
	A (Collar height)	B (Cylinder and thumbturn height)
35~50	17.5	39
50~63	17.5	46
63~73	22.5	56
73~83	17.5	56

(Note 2)

**Strike plate lip (L) dimension**

For single leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
35~42.5	25L	25
42.5~50	30L	30

⚠ **Precautions when selecting a strike plate**

The strike plate shown in the table above is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount.

Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.

For double leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
35~37	18L	18
37~42	20L	20
43~47	23L	23
47~50	25L	25

\* Indicate the door thickness when ordering.







**AH-9****Mortise hotel locks****AH-9** (examples of using No.9 escutcheon, No.1 escutcheon)

Compatible cylinders	Model No.	Hand	Backset	Door thickness (Contact GOAL for more information.)
GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z]	9	R L	76 mm 100 mm
36~42, 42~48 mm (Gap: 6 mm or less)				

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Cylindrical  
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Glass door  
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Key switches  
Interlock /  
emergency  
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Hotel card  
locks

Electric  
locks

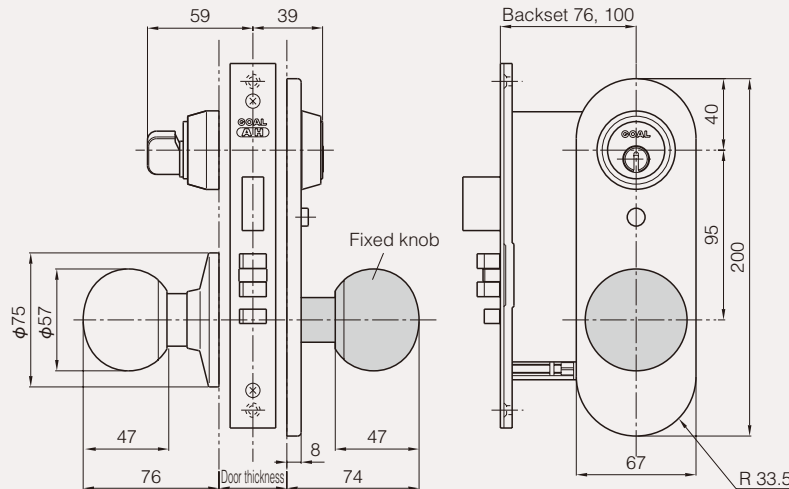
Electrical  
conductors,  
Control  
boxes

**Dimensions****Dimensions/Notch** (Unit: mm)

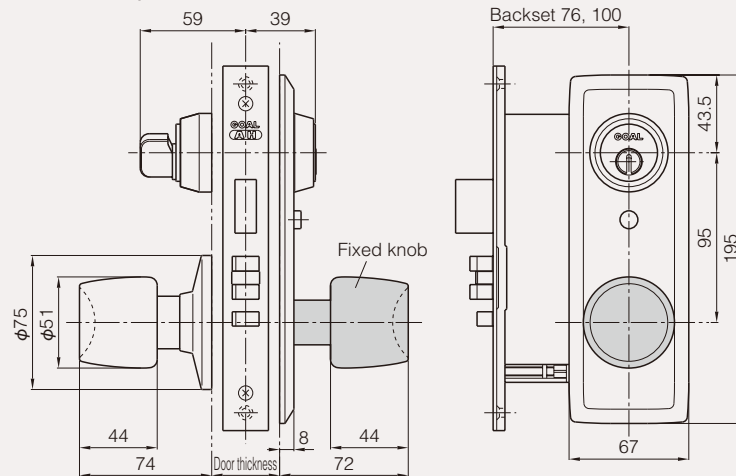
Door thickness: ## mm or more-less than ## mm

● **Example of using a No. 9 type escutcheon**

(Note: No. 9 type escutcheons are installed only on the outside of the door. Pay attention when creating the door notches.)

● **AH-9B (with No. 9 escutcheon)**● **Example of using a No. 1 type escutcheon**

(Note: No. 1 type escutcheons are installed only on the outside of the door. Pay attention when creating the door notches.)

● **AH-9Q (with No. 1 escutcheon)**

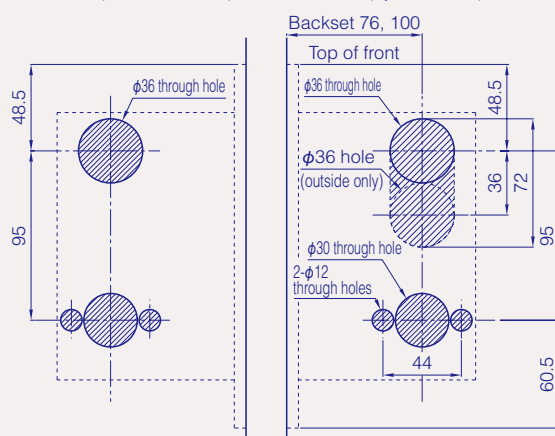
## &lt;Door notch dimensions&gt;

● **No. 1 escutcheon, No. 9 escutcheon**

(Note: Be aware that the notches are different on the inside and outside of the door.)

&lt;Inside (thumbturn side)&gt;

&lt;Outside (cylinder side)&gt;



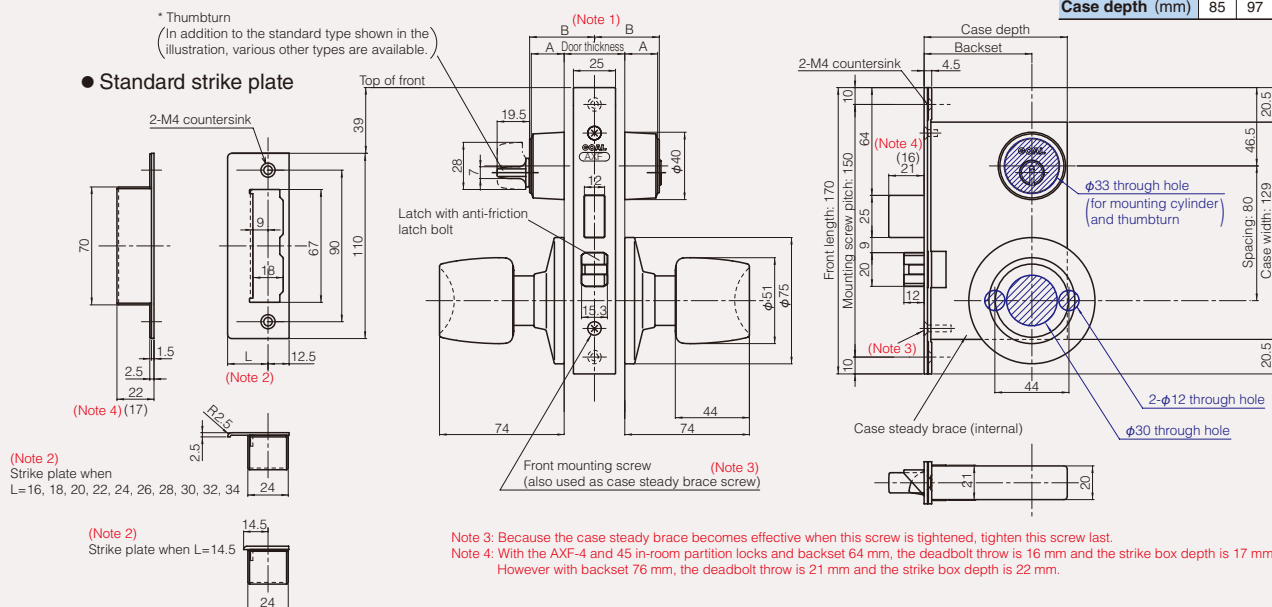


Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
GP [GP] V18 [V] GV [GV]	1, 3, 33 4, 45 (Note 4) 5, 6, 7	64 mm 76 mm	29-33 / 33-43 / 43-53 mm

**■ Dimensions/Notch** (Unit: mm) (The model No. 33, 4, 45, 6 notches are the same as No. 5 in the illustration. However for No. 3 and 7, there is a mounting hole for the cylinder and thumbturn on one side only. For No. 1, there is only the knob notch hole.)

\* In addition to the Q type knob shown in the illustration, various other types are available. (Refer to P.107.)

<b>Backset</b> (mm)	64	76
<b>Case depth</b> (mm)	85	97




(Note 1)

**■ Dimensions A and B for cylinders and thumbturns**

Door thickness (mm)	Dimension (mm)	
	A (Collar height)	B (Cylinder and thumbturn height)
33-43	19.5	38.5
43-53	14.5	38.5
53-63	19.5	48.5
63-73	14.5	48.5
73-83	19.5	58.5

(Note 2)

■ **Strike plate lip (L) dimension**

For single leaf door 		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
29~33	20L	20
33~38	24L	24
38~43		
43~48	30L	30
48~53		

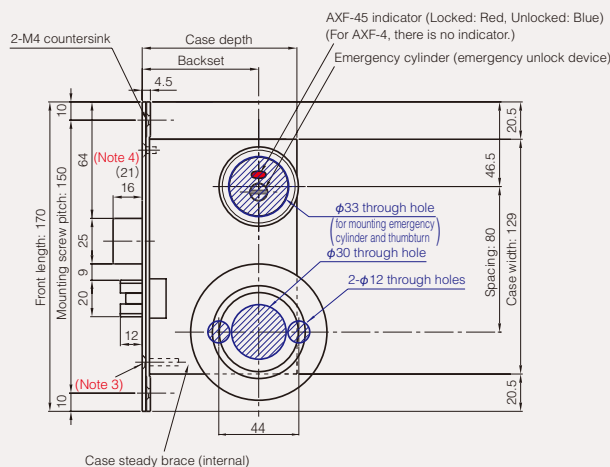
For double leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
29~33	16L	16
33~37	18L	18
37~41	20L	20
41~45	22L	22
45~49	24L	24
49~53	26L	26
53~57	28L	28
57~61	30L	30
61~65	32L	32
65~69	34L	34

### Precautions when selecting a strike plate

The strike plate shown in the table above is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount. Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.

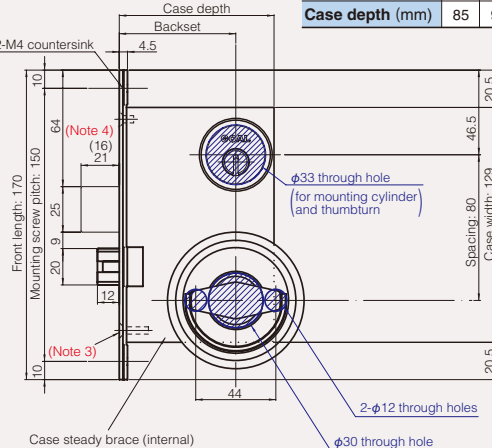
- Partition lock **AXF-4, 45**

<b>Backset</b> (mm)	64	76
<b>Case depth</b> (mm)	85	97



● Cup handle locks **AXFC-5**

<b>Backset</b> (mm)	64	76
<b>Case depth</b> (mm)	85	97









## Mortise locks HS, anti-panic locks HSP

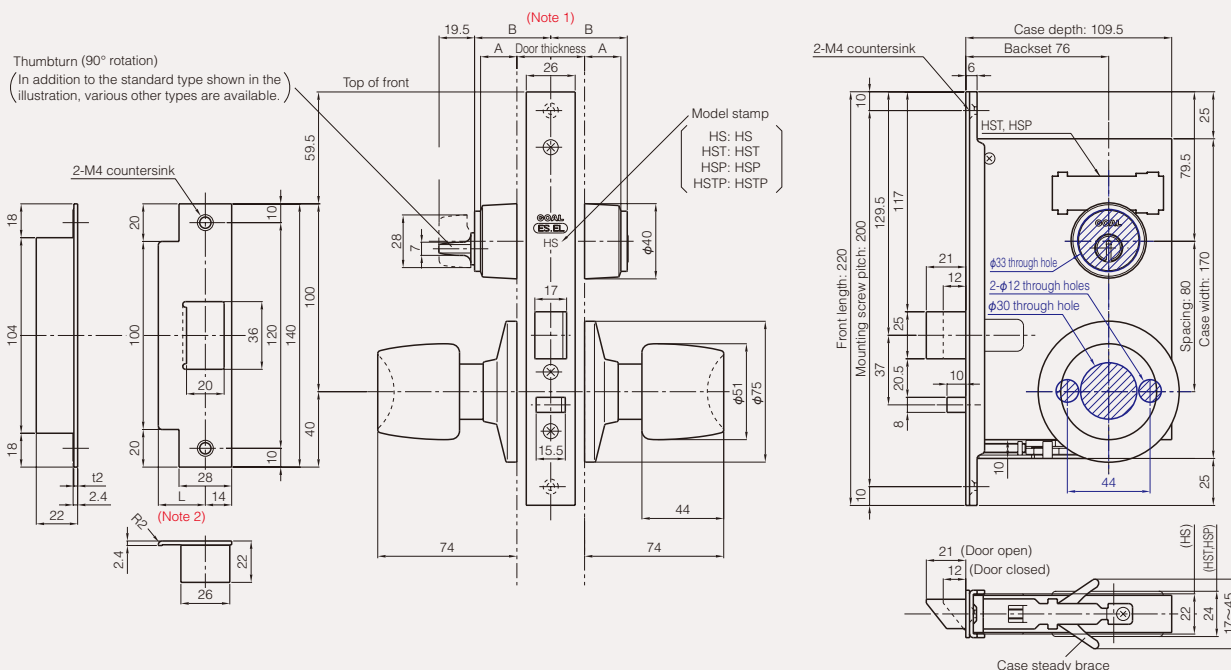
### Automatic locking locks HST, HSTP

## Dimensions


Model	Compatible cylinders		Model No.	Hand	Backset	Door thickness (Contact GOAL for more information.)	Gap (door and jamb)
HS, HST	GP [GP]	6 pins [P]	3,5,6,7	—	76 mm	29~33 / 33~43 / 43~53 mm	6 mm or less
HSP*	V18 [V]	7 pins [Z]	3,5,6,7	R type			
HSTP*	GV [GV]		7	L type			

**Dimensions/Notch** (Unit: mm) (The model No. 6 notch is the same as No. 5 in the illustration. However for No. 3 and 7, there is a mounting hole for the cylinder and thumbturn on one side only.)

\* In addition to the Q type knob shown in the illustration, various other types are available. (Refer to illustration below.)



Door thickness (mm)	Dimension (mm)	
	A (Collar height)	B (Cylinder and thumbturn height)
29-43	19.5	38.5
43-53	14.5	38.5
53-63	19.5	48.5
63-73	14.5	48.5
73-83	19.5	58.5

For single leaf door 		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
29~33	20L	20
33~43	25L	25
43~53	30L	30
53~60	33L	33

For double leaf door		
Door thickness (minimum-les than) mm	Classification	L dimension (mm)
29-33	16L	16
33-37	18L	18
37-42	20L	20
43-47	23L	23
47-51	25L	25
53-57	28L	28
57-61	30L	30
63-67	33L	33

The strike plate shown in the table above is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount.

Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.





Compatible cylinders	Knobs	Model No.	Backset	Door thickness (Contact GOAL for more information.)
GP [GP], V18 [V] GV [GV]	Q (11), B (11)	1, 3, 45, 5, 6, 7 (For 45, knobs are Q, K, E types only.)	57, 64, 83 mm 100 mm	25~33 / 33~43 / 43~53 mm
6 pins [P] 7 pins [Z]	Q, Y, K, B			
5 pins [N]	E			

Door thickness: ## mm or more~less than ## mm

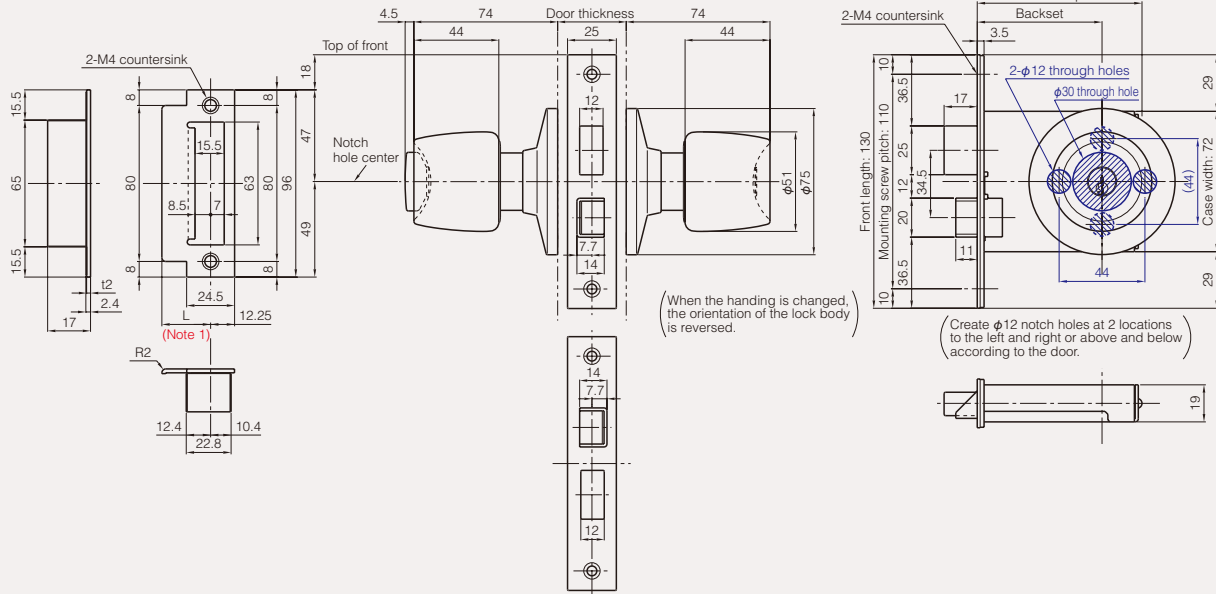
⚠ **Precautions:** Be aware that depending on the frame conditions, when the backset is 57 mm, there may be the risk of fingers being jammed when the knob is turned.

### ■ Dimensions/Notch (Unit: mm) (The notch is the same as No. 5 in this illustration for all models.)

#### ● P-UC-5Q (backset 57, 64, 83 mm) <Illustration shows a 6-pin cylinder, Q type knob.>

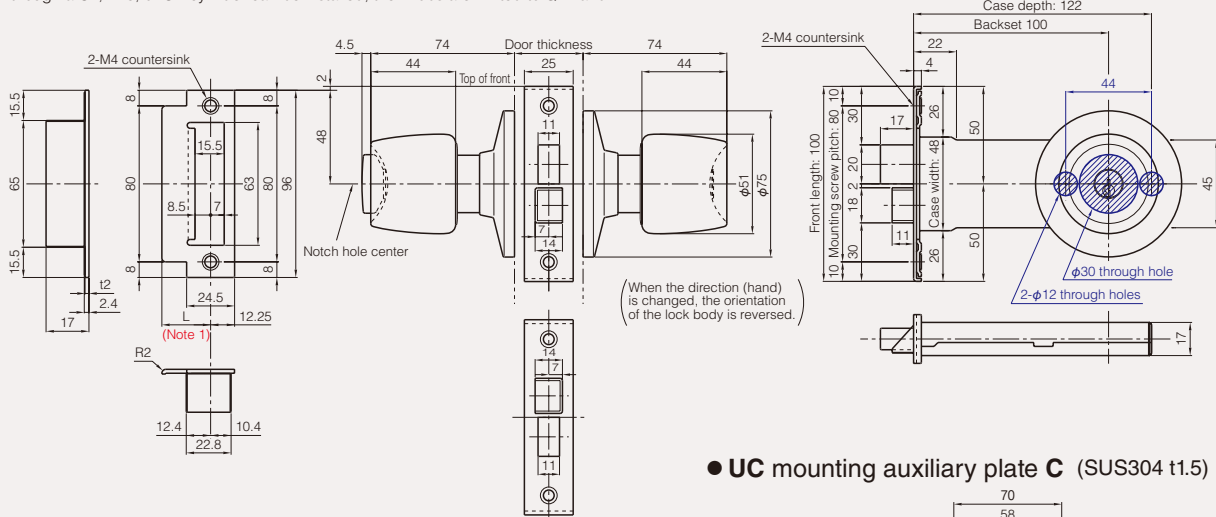
\* Although a GP, V18, or GV cylinder can be installed, the knobs are limited to Q11 and B11.

Backset (mm)	57	64	83
Case depth (mm)	77.5	84.5	103.5

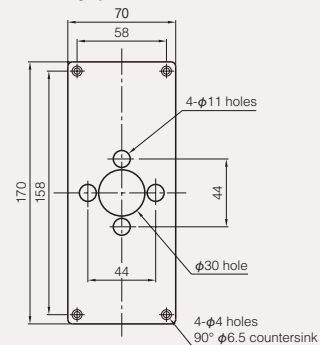


#### ● P-UC-5Q (backset 100 mm) <Illustration shows a 6-pin cylinder, Q type knob.>

\* Although a GP, V18, or GV cylinder can be installed, the knobs are limited to Q11 and B11.



#### ● UC mounting auxiliary plate C (SUS304 t1.5)



(Note 1)

### ■ Strike plate lip (L) dimension

For single leaf door ⚠			For double leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)	Door thickness (minimum~less than) mm	Classification	L dimension (mm)
25~33	20L	20	29~33	16L	16
33~43	25L	25	33~37	18L	18
43~53	30L	30	37~42	20L	20
53~60	33L	33	43~47	23L	23
			47~51	25L	25
			53~57	28L	28

#### ⚠ **Precautions when selecting a strike plate**

The strike plate shown in the table at left is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount.

Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.

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#### Key switches Interlock / emergency door systems

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UC

# Integral locks UC

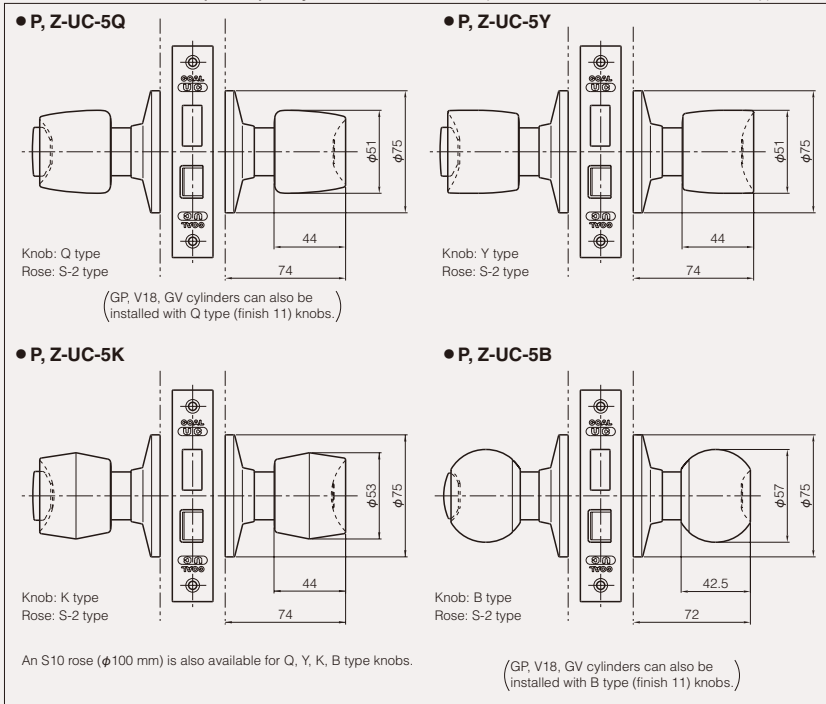
## List of knobs

Compatible cylinders	Knobs	Model No.	Backset	Door thickness (Contact GOAL for more information.)
GP [GP], V18 [V] GV [GV]	Q (11), B (11)	1, 3, 45, 5, 6, 7 (For 45, knobs are Q, K, E types only.)	57, 64, 83 mm 100 mm	25-33 / 33-43 / 43-53 mm (Note)
6 pins [P] 7 pins [Z] 5 pins [N]	Q, Y, K, B E			

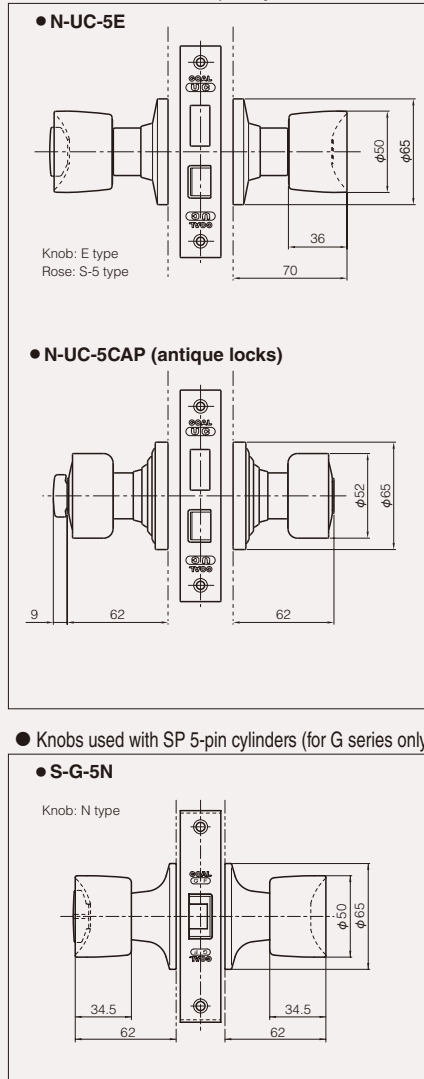
Door thickness: ## mm or more-less than ## mm

**Dimensions/Notch** (Unit: mm) **⚠ Precautions:** Be aware that depending on the frame conditions, when the backset is 57 mm, there may be the risk of fingers being jammed when the knob is turned.

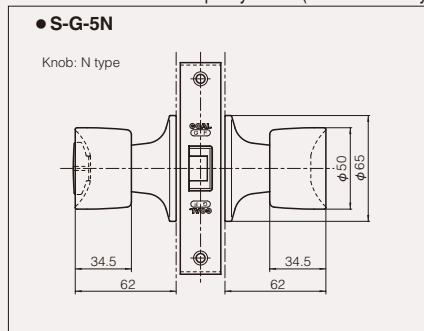
● Knobs used with 6-pin, 7-pin cylinders (\* GP, V18, GV cylinders can also be installed with Q, B type knobs.)



● Knobs used with 5-pin cylinders



● Knobs used with SP 5-pin cylinders (for G series only)



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**UH**

# Uni-Locks (cylindrical locks)

## UH series



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locks  
Glass door  
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locks

Sliding  
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Security systems

Ten-key  
pads

Key switches  
Interlock /  
emergency  
door  
systems

Hotel card  
locks

Electric  
locks

Electrical  
conductors,  
Control  
boxes

## Dimensions

Knobs	Compatible cylinders	Model No.	Backset	Door thickness (Note)	Gap (door and jamb)
Q, K, Y, B	6 pins [P] 7 pins [Z]	1, 3, 4, 5, 6, 7 8, 9*	60, 70, 89, 127 mm	30~34 mm (special thin specification) 34~50 mm (standard) 50~60 mm (special thick specification)	6 mm or less

### Dimensions/Notch (Unit: mm)

(The notch is the same as No. 5 in this illustration for all models.)

#### ● P-UH-5Q (backset 60, 70, 89, 127 mm)

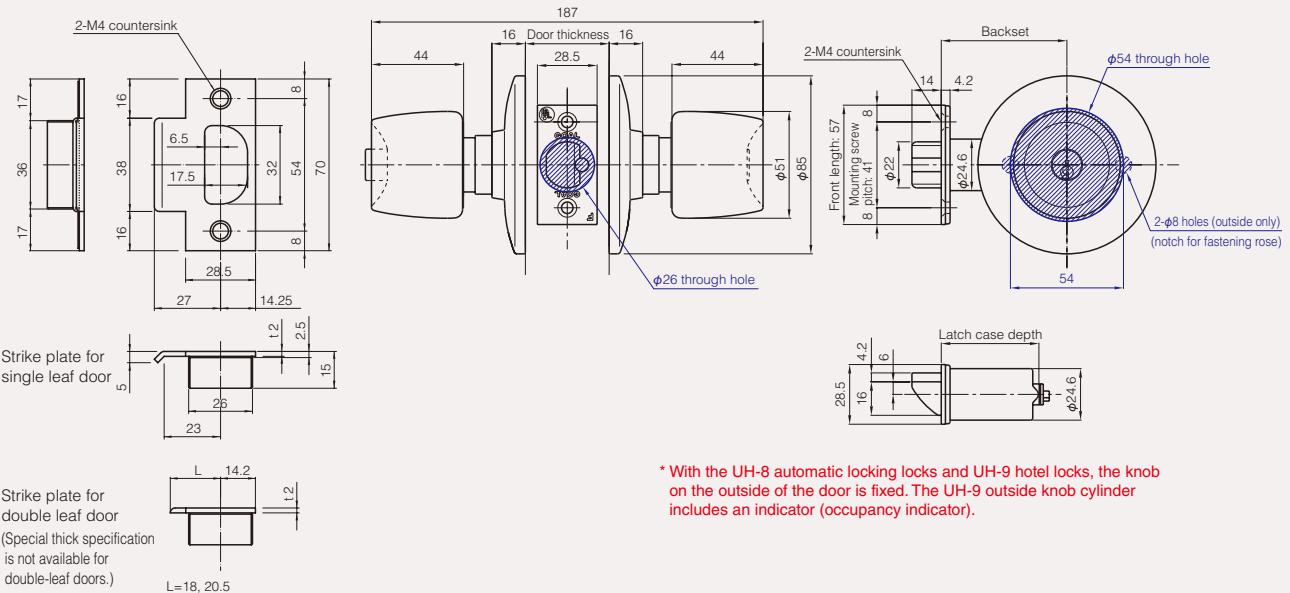
&lt;Illustration shows a 6-pin cylinder, Q type knob. &gt;

Note: Special thin specification is required for door thickness 30~34, and special thick specification is required for door thickness 50~60 mm. Please contact us.

Door thickness: ## mm or more~## mm or less

- ⚠ **Precautions:** 1. Press the button on the door inside to lock. Be aware that the lock cannot be locked using the key. However model No 6 (double-cylinder lock) and model No. 7 (single-cylinder outside lock) are locked and unlocked from the outside using the key.
2. Be aware that depending on the frame conditions, when the backset is 60 mm, there may be the risk of fingers being jammed when the knob is turned.

Backset (mm)	60	70	89	127
Latch case depth (mm)	36.3	46.4	65.1	103.3

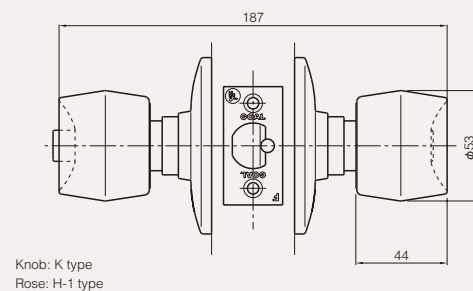
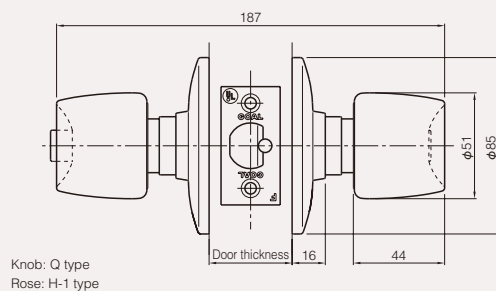


\* With the UH-8 automatic locking locks and UH-9 hotel locks, the knob on the outside of the door is fixed. The UH-9 outside knob cylinder includes an indicator (occupancy indicator).

#### ● List of UH series knobs (For standard door thickness 34~50 mm)

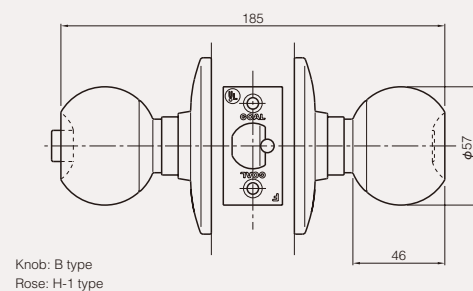
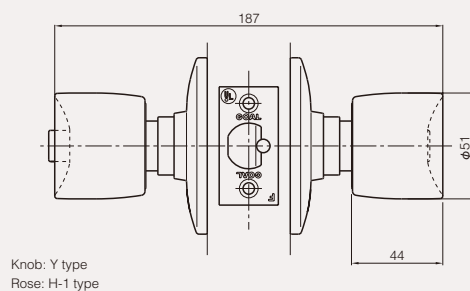
##### ● UH-5K

##### ● UH-5K



##### ● UH-5Y

##### ● UH-5B









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locks

Electric  
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conductors,  
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## Dimensions

Knobs	Cylinder	Model No.	Backset	Door thickness	Gap (door and jamb)
E, F	Wafer cylinder	5	50, 57, 60, 64, 70, 89, 127 mm	25~30, 27~37 mm	6 mm or less

Door thickness: ## mm or more~## mm or less

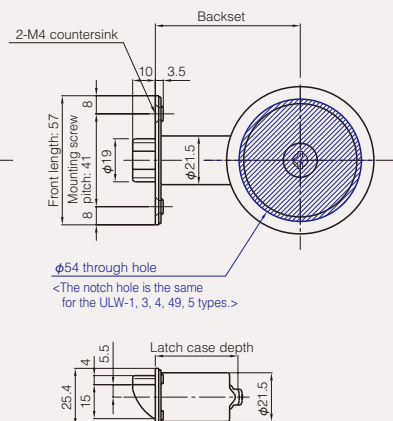
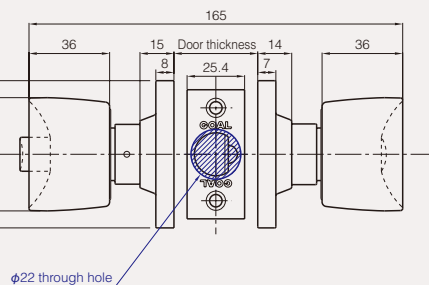
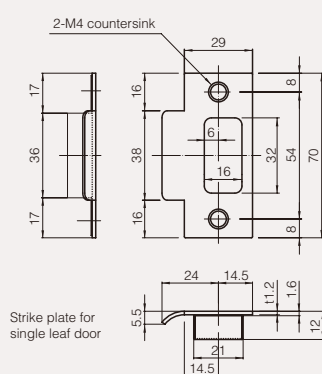
### Dimensions/Notch (Unit: mm)

(The notch is the same as No. 5 in this illustration for all models.)

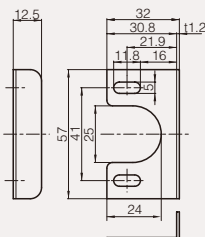
- ⚠ **Precautions:**
1. Press the button on the door inside to lock. Be aware that the lock cannot be locked using the key.
  2. Be aware that depending on the frame conditions, when the backset is 60 mm or less, there may be the risk of fingers being jammed when the knob is turned.
  3. Be aware that although mounting is possible when the door thickness at the rose mounting point is 25 mm or more, the thickness at the latch front mounting point must be 28 mm or more.

### ● ULW-5E <Illustration shows an E type knob with backset 60 mm.>

Backset (mm)	50	57	60	64	70	89	127
Latch case depth (mm)	24.9	31.9	35.3	39.3	45.3	64.1	102.1



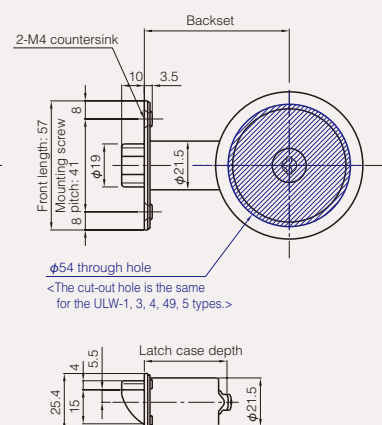
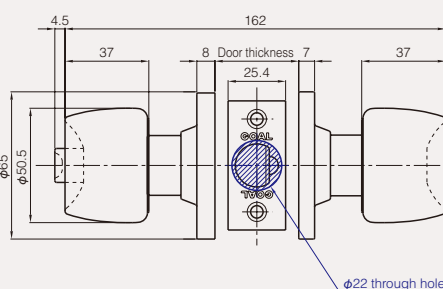
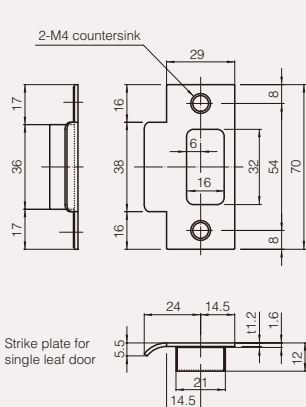
### ● Guard plate (Set as standard with ULW-5.)



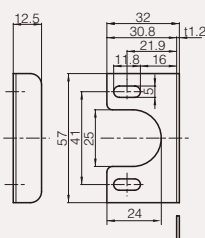
### ● ULW-5F <Illustration shows an F type knob with backset 60 mm.>

Note: F type knob for ULW has been discontinued.

Backset (mm)	50	57	60	64	70	89	127
Latch case depth (mm)	24.9	31.9	35.3	39.3	45.3	64.1	102.1



### ● Guard plate (Set as standard with ULW-5.)





Cylinder	Model No.	Knobs	Backset	Door thickness	Gap (door and jamb)
	1, 4, 49	E, F	50, 57, 60, 64, 70, 89, 127 mm	25-30, 27-37 mm	6 mm or less
	1, 4, 49 BL		60, 64, 89 mm	25-30, 27-37 mm	

### Dimensions/Notch (Unit: mm) (The notch is the same for all models.)

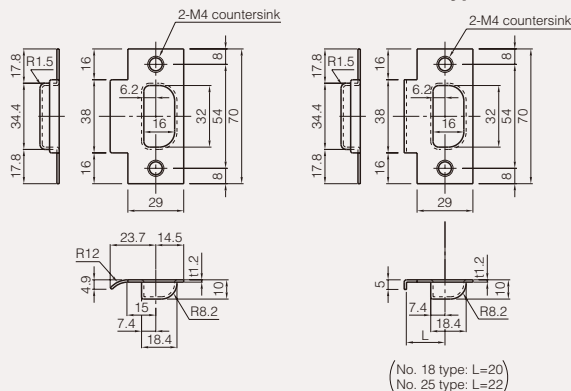
#### ULW-4E BL, 49E BL type

(ULW-1E BL has the same dimensions as the illustration below except for the absence of the push-button and emergency cylinder.)

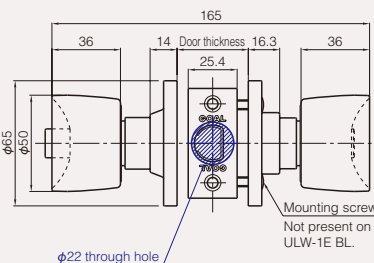
Backset	(mm)	60	64	89
Latch case depth	(mm)	35.3	39.3	64.1

#### BL strike plate

##### <KD type>

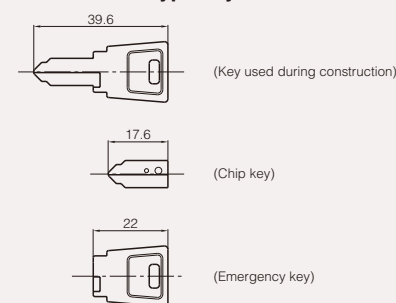


##### <No. 18, 25 type>



(For the BL type, the latch uses nylon, and the structure is installed from the outside using screws. The strike plate specifications are also different.)

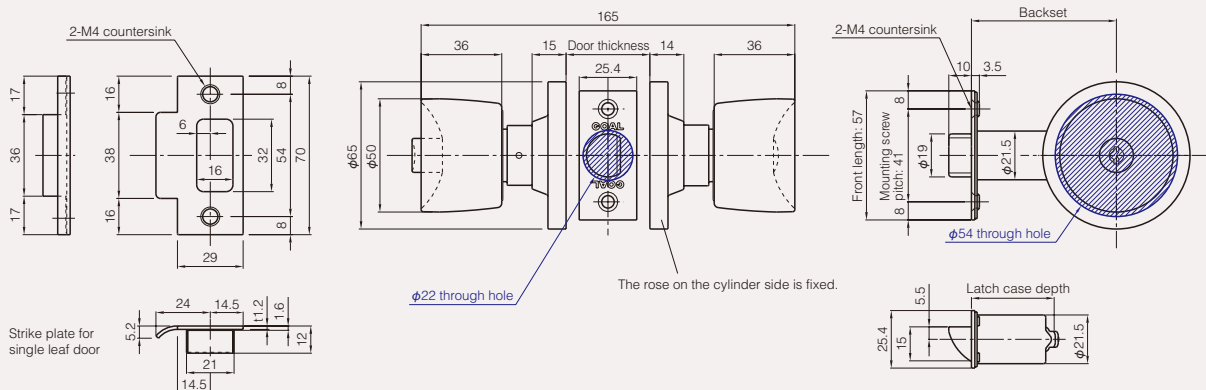
#### ULW-49\*BL type key



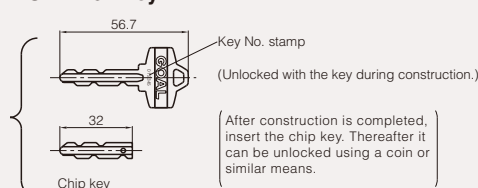
#### ULW-49E (with construction key system for bathroom)

(ULW-4E has the same dimensions as the illustration below. ULW-1E has the same dimensions except for the absence of the push-button and emergency cylinder.)

Backset	(mm)	50	57	60	64	70	89	127
Latch case depth	(mm)	24.9	31.9	35.3	39.3	45.3	64.1	102.1



#### ULW-49E key



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## Rim dead locks MH

Compatible cylinders	Model No.	Hand	Thumbturn	Door thickness
V18[V] GV[GV]	5	Same for right and left, inside and outside	Standard type TME type TMK type	30~50, 50~70 mm

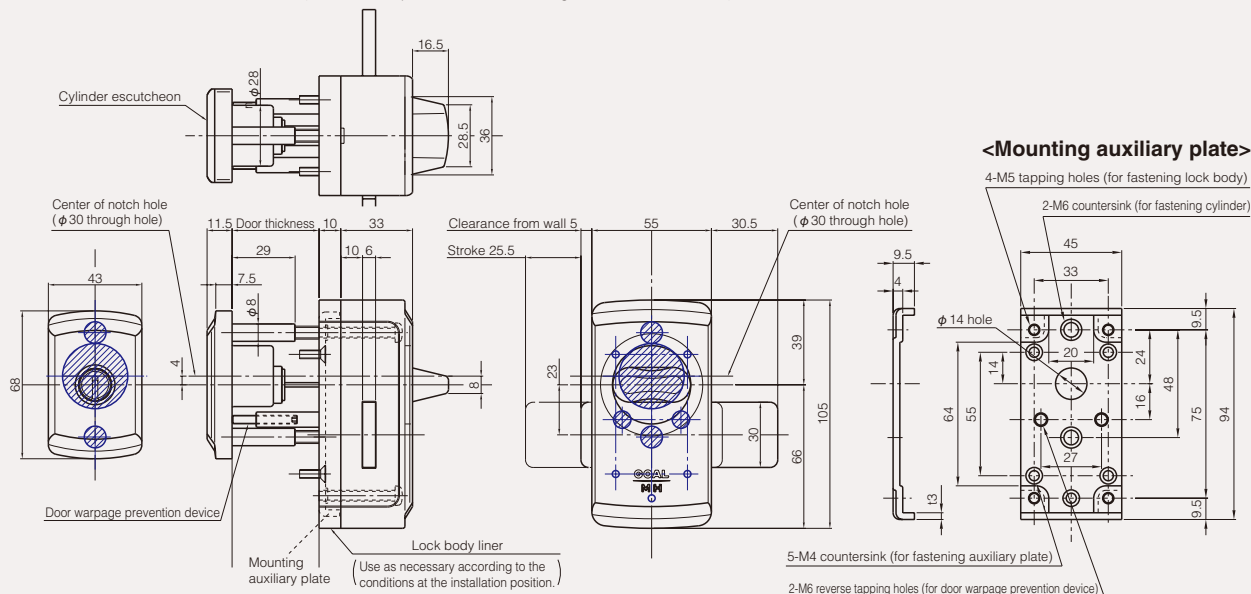
Door thickness: ## mm or more~## mm or less

**■ Dimensions/Notch** (Unit: mm)

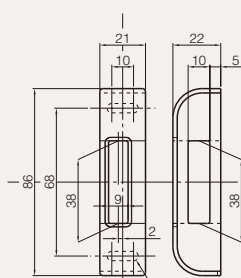
● **V-MH-5** <Illustration shows a lock with a V18 cylinder.>

\* GV cylinders can be installed, however GP, 6-pin, and 7-pin cylinders cannot.

\* In addition to standard type thumbturns shown in the illustration, TME and TMK security thumbturns are also available. TME thumbturns do not have a TM function (function that prevents it from rotating under eccentric force) in normal mode.

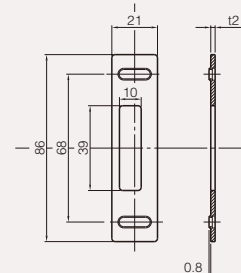


- V-MH strike plate

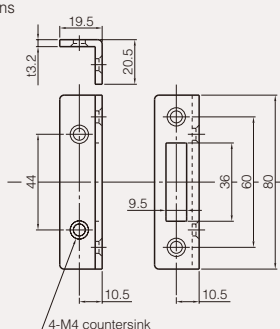


- V-MH strike plate liner (2 liners)

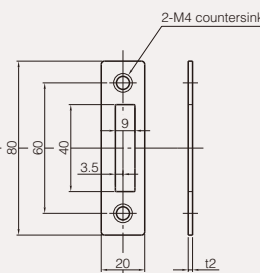
(Use as necessary according to the conditions at the installation position.)



- V-MH L type strike plate (t3.2)

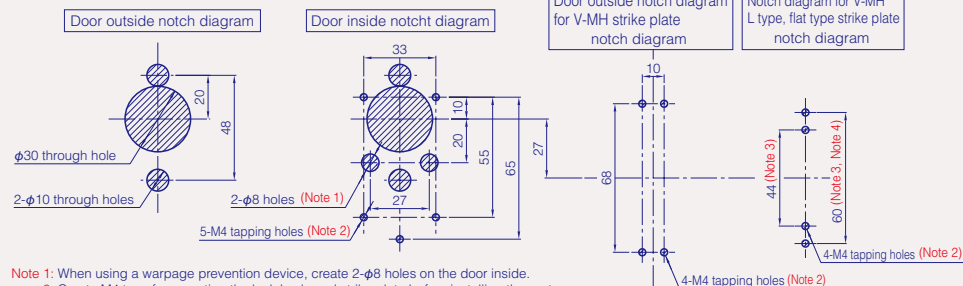


- V-MH flat strike plate (t2.0)



<Door notch dimensions>

**\* Three types of strike plates are included in the set. Use the appropriate one according to the conditions of the door and frame.**



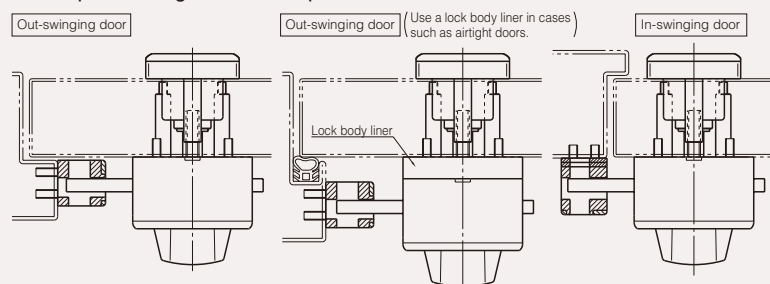
**Note 1:** When using a warpage prevention device, create 2-φ8 holes on the door inside.

2: Create M4 taps for mounting the lock body and strike plate before installing the parts  
(Not necessary for a wooden door.)

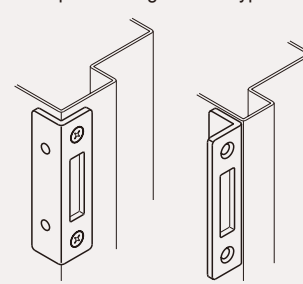
3: Be aware that the mount screw pitch for an L type strike plate is different (44 mm or 60 mm) depending on the mounting direction.

4: The mounting screw pitch for a flat strike plate is 60 mm.

- Example of using **V-MH** strike plate



- Example of using **V-MH** L type strike plate













Note: GV cylinders cannot be used with HDFU.

Model	Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
HD	GP [GP] V18 [V]	(Note 2) 3, 33, 4, 45, 5, 6, 7	38, 51, 64, 76 mm	29-43 / 43-53 mm
HDFU (Note)	GV [GV]	7	64, 76 mm	33-40 / 40-50 mm

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Cremon  
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Glass door  
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## ■ Dimensions/Notch (Unit: mm)

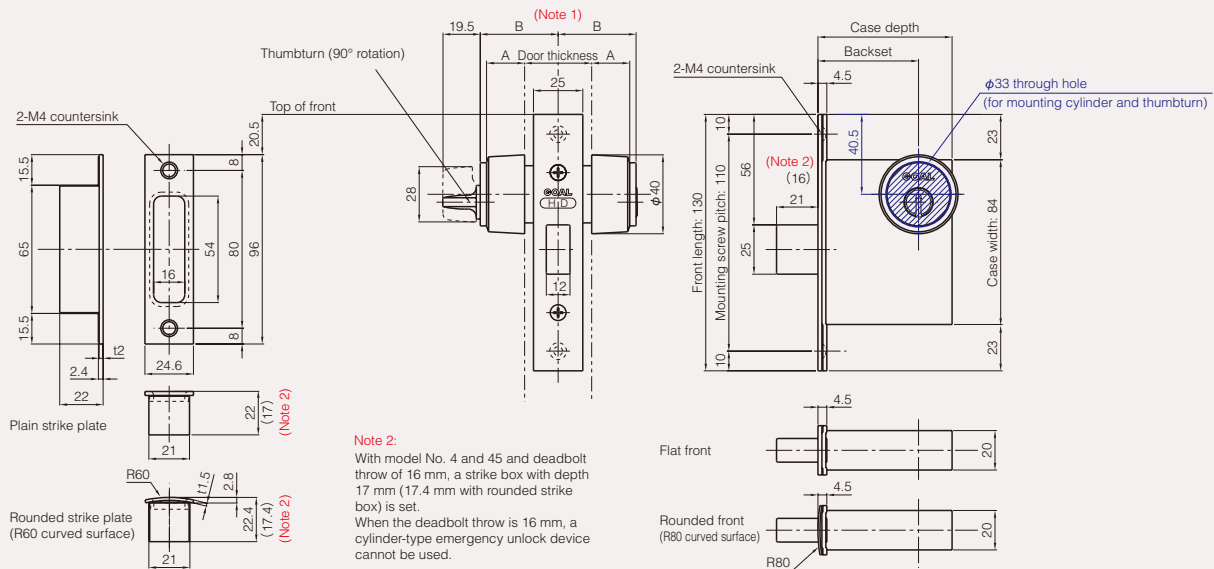
(The model No. 33, 4, 45, 6 notches are the same as No. 5 in the illustration. However create a thumbturn mounting hole (No. 3) or cylinder mounting hole (No. 7) on one side only.)

## ● V-HD-5 (backset 38, 51, 64, 76 mm)

<Illustration shows example of using model No. 5 with V18 cylinder.>

Door thickness: ## mm or more-less than ## mm

Backset (mm)	38	51	64	76
Case depth (mm)	54.5	68.5	81.5	93.5



## Note 2:

With model No. 4 and 45 and deadbolt throw of 16 mm, a strike box with depth 17 mm (17.4 mm with rounded strike box) is set.  
When the deadbolt throw is 16 mm, a cylinder-type emergency unlock device cannot be used.

## (Note 1)

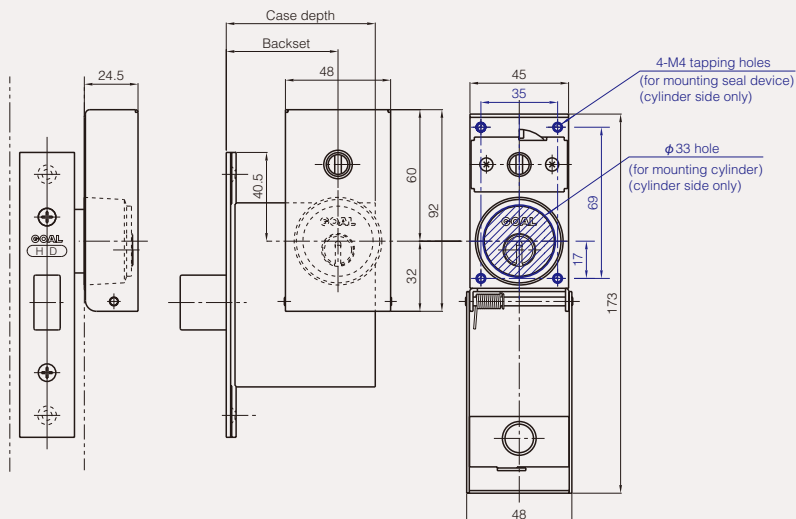
## ■ Dimensions A and B for cylinders and thumbturns

Door thickness (mm)	Dimension (mm)	
	A	B
29-43	19.5	38.5
43-53	14.5	38.5
53-63	19.5	48.5
63-73	14.5	48.5
73-83	19.5	58.5

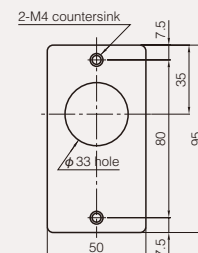
## ● Seal locks V-HDFU-7 (backset 64, 76 mm)

Note: GV cylinders cannot be used with HDFU.

Backset (mm)	64	76
Case depth (mm)	81.5	93.5



(Conditions after seal device cover was opened)

● Changeable auxiliary plate  
(PSD mounting auxiliary plate G)  
(SUS304 t1.5)



# 1502 Dead locks

## 1503 1502, 1503

Text P. 46

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Dead locks  
Cremen  
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Glass door  
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Emergency  
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Cup handle  
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Sliding  
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Electric locks  
Security systems

Ten-key  
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Key switches  
Interlock /  
emergency  
door  
systems

Hotel card  
locks

Electric  
locks

Electrical  
conductors,  
Control  
boxes

### Dimensions

Model	Compatible cylinders	Model No.	Backset	Door thickness	Gap (door and jamb)
1502,1503	GP [GP], V18 [V], GV [GV]	3, 5, 6, 7	25, 32 mm	25~38 / 38~48 / 48~58 mm (Note 1) (Contact GOAL for more information.)	—
	6 pins [P], 7 pins [Z]				

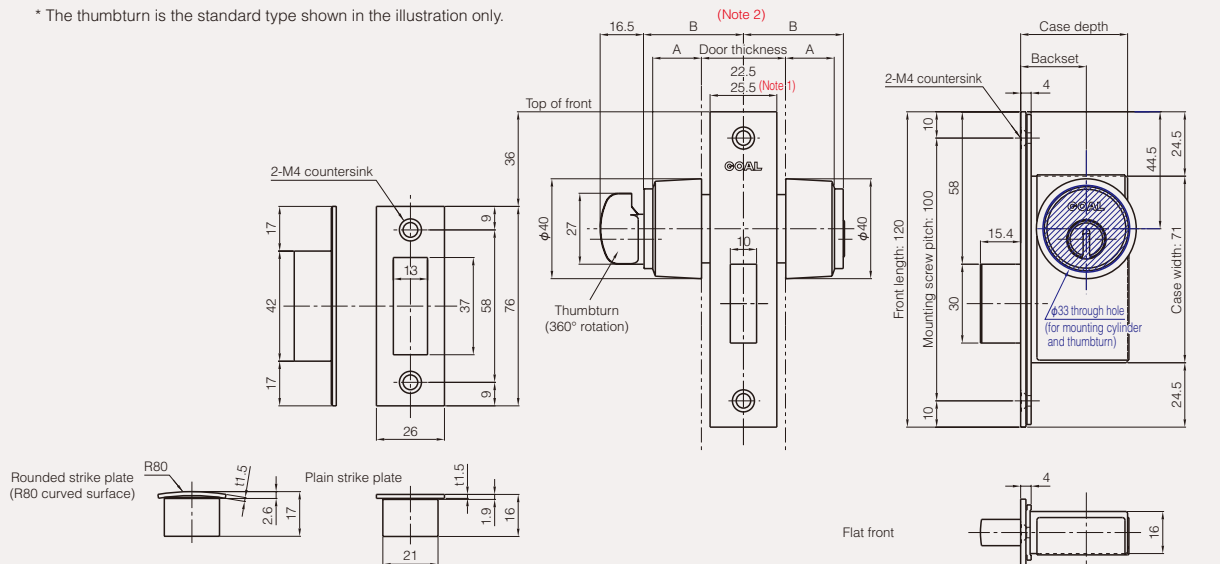
### Dimensions/Notch (Unit: mm)

Door thickness: ## mm or more-less than ## mm

#### ● V-1502 (backset 25 mm), 1503 (backset 32 mm) -5 <Illustration shows example of using model No. 5 with V18 cylinder.>

(The model No. 6 notch is the same as No. 5 in the illustration. However create a thumbturn mounting hole (No. 3) or cylinder mounting hole (No. 7) on one side only.)

\* The thumbturn is the standard type shown in the illustration only.



(Note 2)

#### Dimensions A and B for cylinders and thumbturns

Door thickness (mm)	Dimension (mm)	
	A	B
25~38	19.5	36
38~48	14.5	36
48~58	19.5	46
58~68	14.5	46
68~78	19.5	56

Flat front

Rounded front  
(R80 curved surface)

Note 1:

There are two types of front width dimension for both flat front and rounded front: 22.5 mm and 25.5 mm. Be sure to specify the one you want.  
For door thickness of 25~less than 28 mm, be sure to use a lock with a front width of 22.5 mm.







## Dead locks LXD

Compatible cylinders		Model No.	Backset	Door thickness (Contact GOAL for more information.)
GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z]	3, 4, 45, 5, 6, 7	32, 38, 51, 64 mm	29~43 / 43~53 mm

**■ Dimensions/Notch** (Unit: mm)

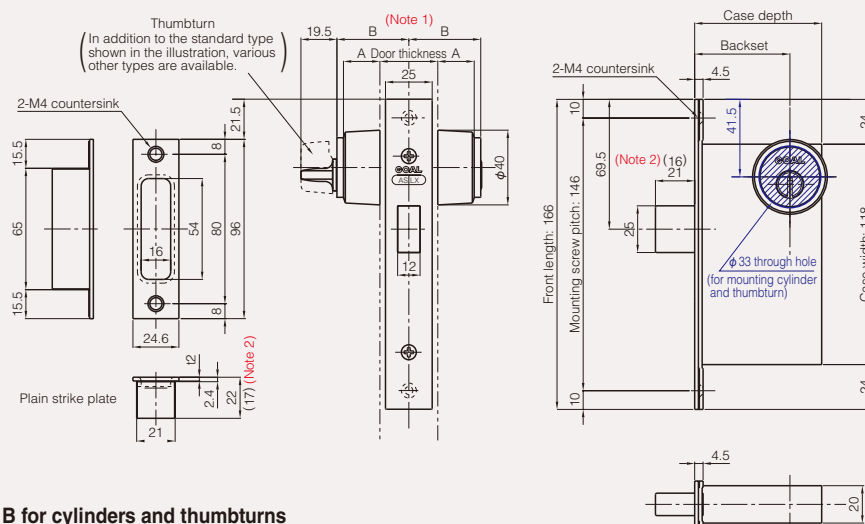
The model No. 4, 45, 6 notches is the same as No. 5 in the illustration.

However create a thumbturn mounting hole (No. 3) or cylinder mounting hole (No. 7) on one side only.)

● **V-LXD-5** (backset 32, 38, 51, 64 mm)

<Illustration shows example of using model No. 5, V18 cylinder.>

<b>Backset</b> (mm)	32	38	51	64
<b>Case depth</b> (mm)	48.5	55.5	68.5	81.5



(Note 1)

### ■ Dimensions A and B for cylinders and thumbturns

Door thickness (mm)	Dimension (mm)	
	A	B
29~43	19.5	38.5
43~53	14.5	38.5
53~63	19.5	48.5
63~73	14.5	48.5
73~83	19.5	58.5

Note 2:

Note 2:  
When the deadbolt throw is 16 mm, a strike box with depth 17 mm is set.

When the deadbolt throw is 16 mm, a cylinder-type emergency unlock device cannot be used.















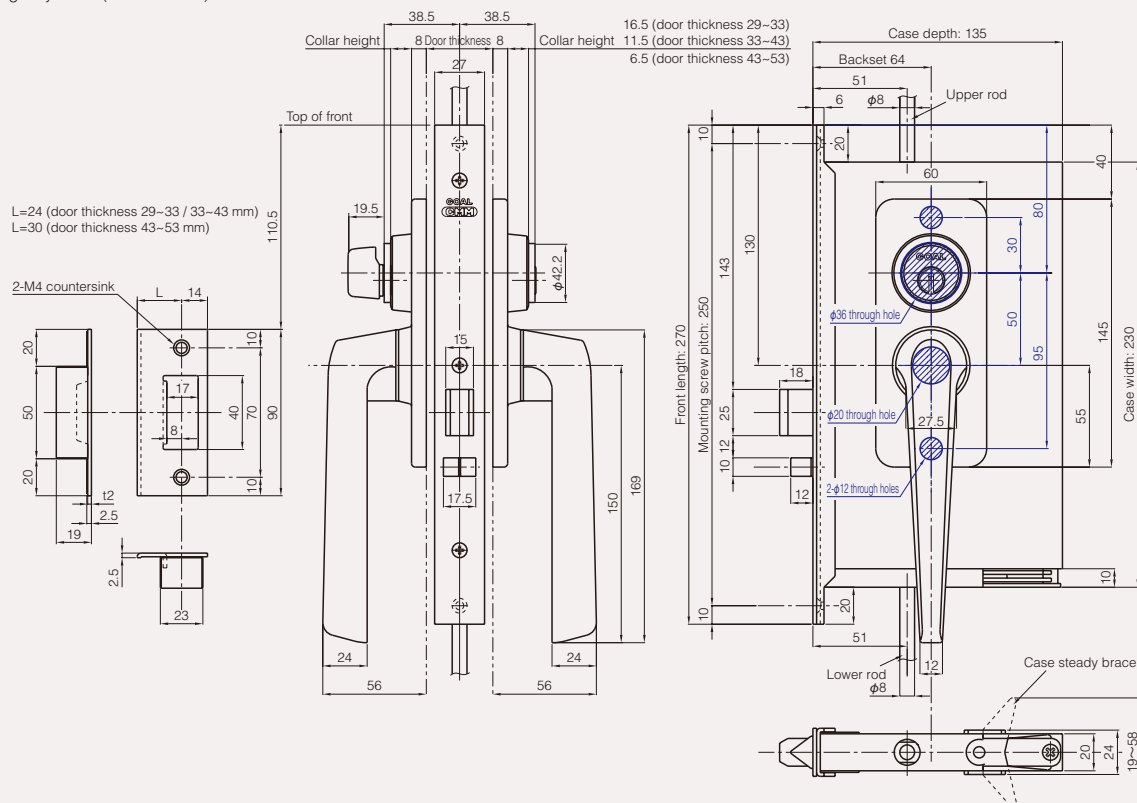
Compatible cylinders		Model No.	Backset	Door thickness (Contact GOAL for more information.)	Gap (door and jamb)
GP [GP]	6 pins [P]	1,3,5,6,7	64 mm	29-33 / 33-43 / 43-53 mm	Door end: 9 mm or less,
V18 [V]	7 pins [Z]			(AL: 33-38 / 38-43 / 43-48 /	Door top and bottom:
GV [GV]				48-53 mm)	10 mm or less

Door thickness: ## mm or more~less than ## mm

**Dimensions/Notch** (Unit: mm) (The model No. 6 notch is the same as No. 5 in the illustration. However create a thumbturn mounting hole (No. 3) or cylinder mounting hole (No. 7) on one side only. For No. 1, create a handle mounting hole only.)

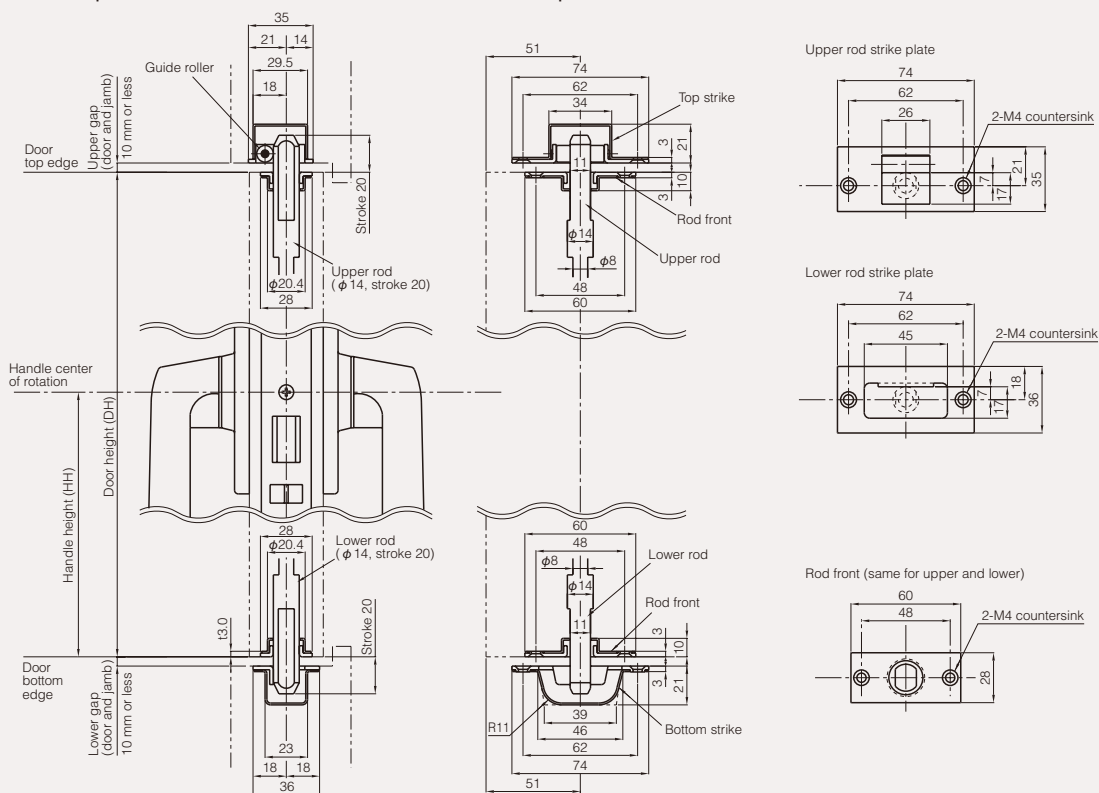
● **V-CMM-5** (backset 64 mm) <Illustration shows example of using model No. 5 with V18 cylinder.>

- \* Fixed handles for double-leaf doors are also available.
- \* Emergency cover (for thumbturn) is also available.



<Main parts vertical cross-section side view>

<Main parts vertical cross-section front view>



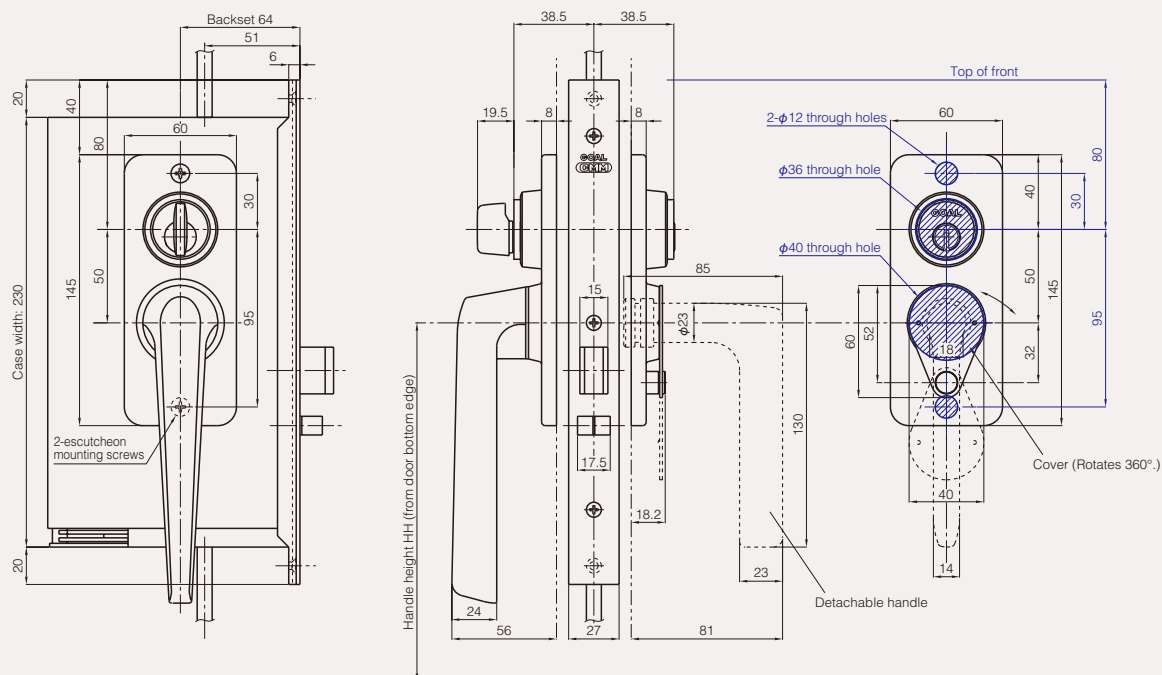


Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)	Gap (door and jamb)
GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z]	1,3,5,6,7	64 mm	29~33 / 33~43 / 43~53 mm (AL: 33~38 / 38~43 / 43~48 / 48~53 mm)
				Door end: 9 mm or less, Door top and bottom: 10 mm or less

Door thickness: ## mm or more-less than ## mm

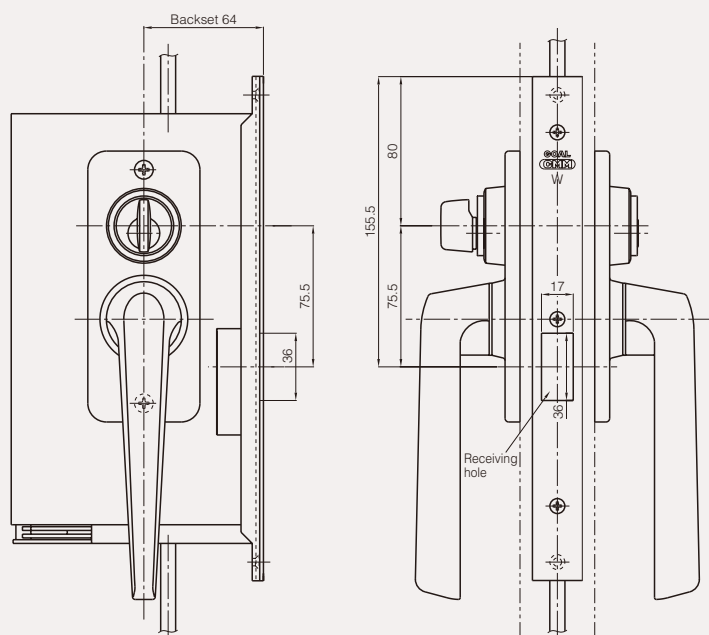
### ● Detachable handle **CMM AL-5 K11S** (backset 64 mm)

(Parts other than the detachable handle are the same as CMM-5 on P.126.)  
(Be aware that the notch dimensions are different from CMM-5.)

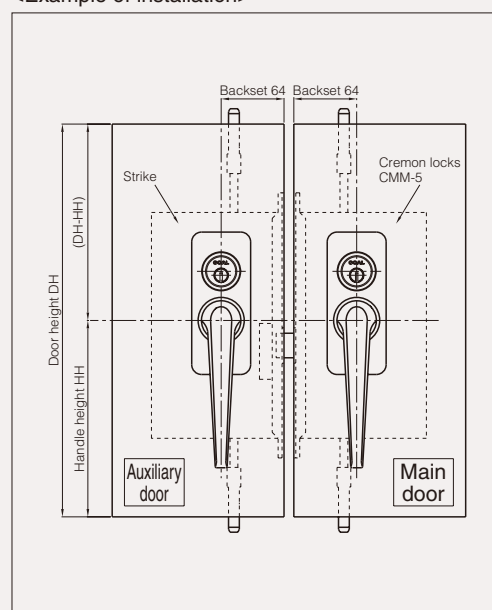


### ● Strike for double-leaf doors **CMM W-5** (backset 64 mm)

(Dimensions of parts other than the receiving hole are the same as CMM-5 on P.126.)  
(The notch dimensions are the same as CMM-5.)



### <Example of installation>



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AD (backset 600 mm)

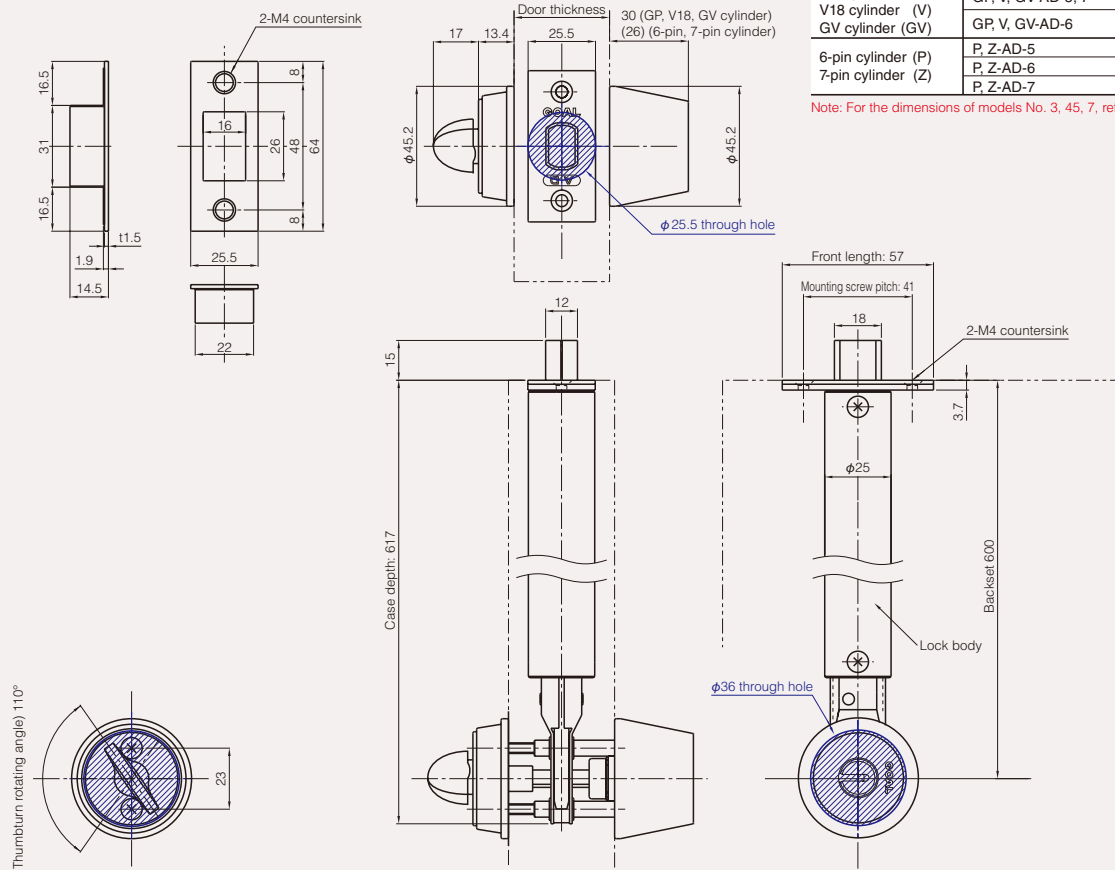
Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
GP [GP]	6 pins [P]	3,45,5,6,7	600 mm
V18 [V]	7 pins [Z]		
GV [GV]			

Door thickness: ## mm or more-less than ## mm

## Dimensions/Notch (Unit: mm) (The notch is the same for all models.)

## ● V-AD-5 (backset 600 mm)

&lt;Illustration shows example of using model No. 5 with V18 cylinder. &gt;



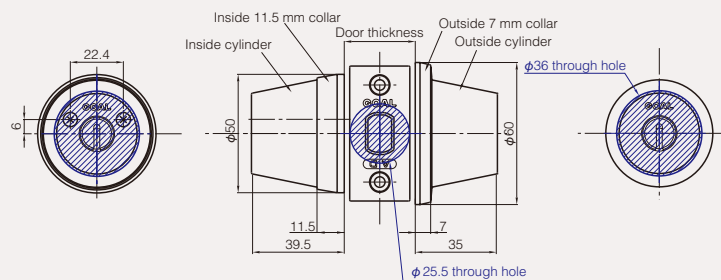
## Door thickness where AD (backset 600 mm) can be installed

Cylinder type (symbol)	Model	Door thickness
(Emergency cylinder)	AD-3	30-45 / 45-55 mm
(Emergency cylinder)	AD-45 (TSD em. cyl.)	33-45 mm
GP cylinder (GP)	GP, V, GV-AD-5, 7	30-43 / 43-53 mm
V18 cylinder (V)	GP, V, GV-AD-6	30-40 / 40-50 mm
GV cylinder (GV)	GP, V, GV-AD-6	30-40 / 40-50 mm
6-pin cylinder (P)	P, Z-AD-5	30-45 / 45-55 mm
7-pin cylinder (Z)	P, Z-AD-6	37-47 / 47-57 mm
	P, Z-AD-7	30-55 mm

Note: For the dimensions of models No. 3, 45, 7, refer to P.129.

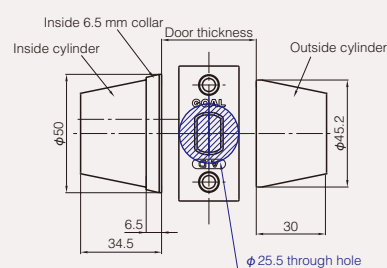
## &lt;Double-cylinder lock (model No. 6)&gt;

## ● GP, V, GV-AD-6 (Door thickness 30-40 mm) (\* Use a collar on both sides.)

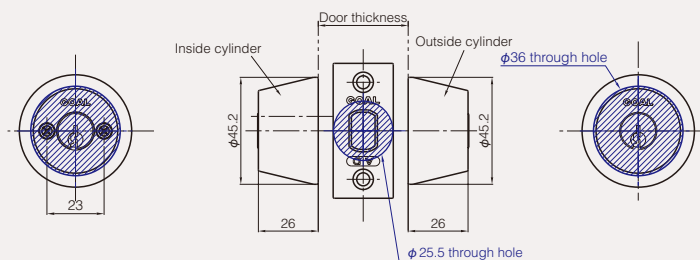


## ● GP, V, GV-AD-6 (Door thickness 40-50 mm)

(\* Use a collar on the inside.)



## ● P, Z-AD-6 (Door thickness 37-47 / 47-57 mm) (\* A collar is not used.)



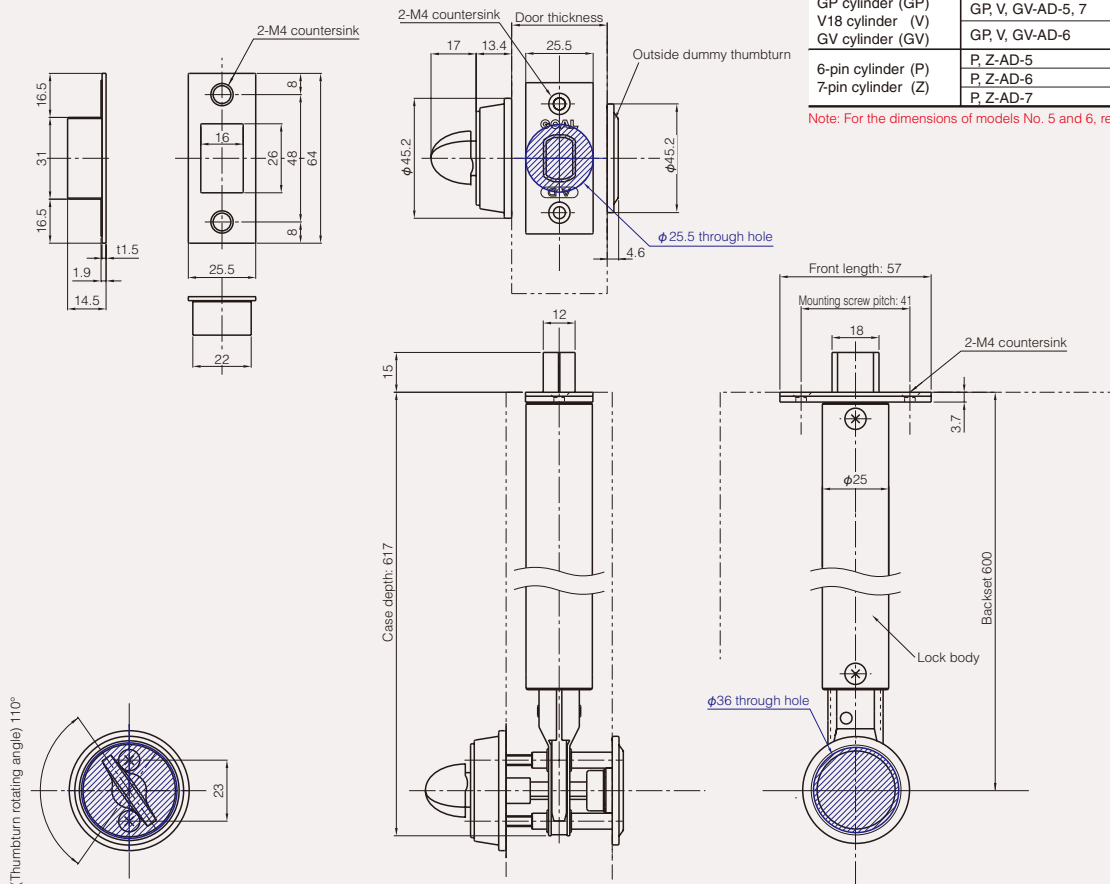


Compatible cylinders		Model No.	Backset	Door thickness <small>(Contact GOAL for more information.)</small>
GP [GP]	6 pins [P]	3,45,5,6,7	600 mm	Varies depending on the model. For details, refer to the table in the dimensions diagram.
V18 [V]	7 pins [Z]			
GV [GV]				

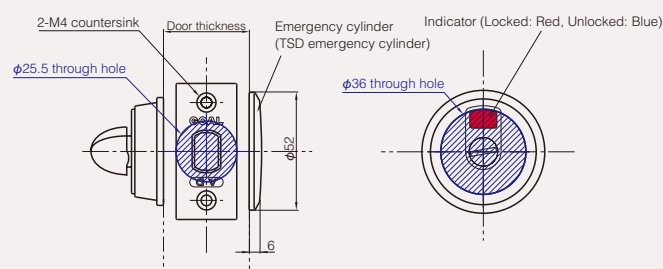
**■ Dimensions/Notch** (Unit: mm) (The notch is the same for all models.)

Door thickness: ## mm or more~less than ## mm

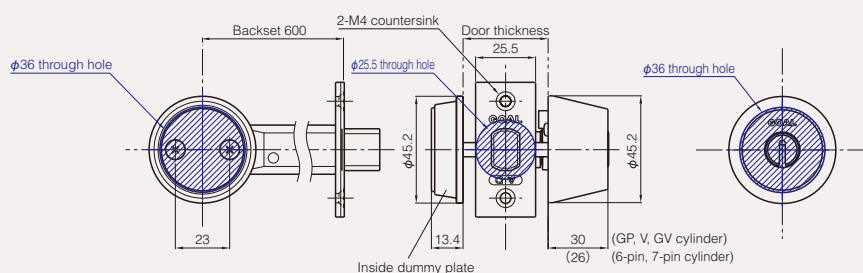
● **AD-3** (exit lock) (backset 600 mm) <Door thickness 30~45 mm>



● **AD-45 (TSD em. cyl.) (lock with indicator)** (backset 600 mm) (Door thickness 33~45 mm)



● **GP, V, GV (P, Z)-AD-7** (backset 600 mm) (Door thickness varies depending on the cylinder type.)  
(Refer to the table above.)



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Glass door  
locks

Emergency  
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**TSA**

# Sliding (hanger) door locks

## TSA series

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Dead locks  
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Glass door  
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Emergency  
locks  
Cup handle  
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Sliding  
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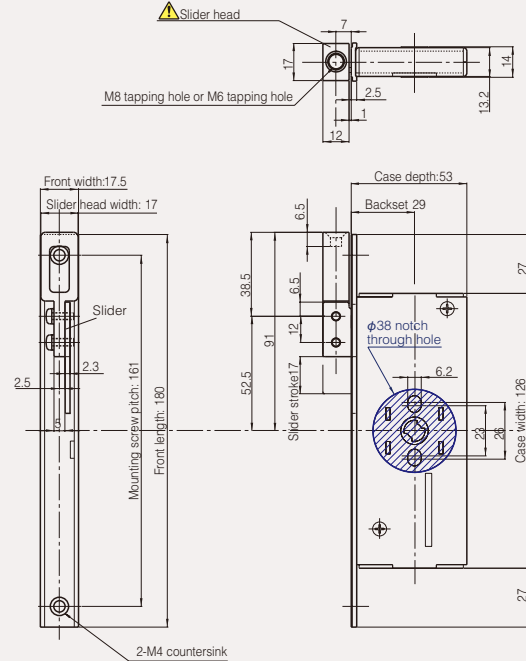
Dimensions

Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
GP [GP] 6 pins [P] V18 [V] 7 pins [Z] GV [GV]	3, 3L, 33, 33L, 45, 45L 45EK, 45LEK, 5, 5L, 6, 7	29 mm	28-33 mm (using collars on both sides) (* Collar "28-33" stamp is visible.) 33-38 mm (using collars on both sides) (* Collar stamp is on reverse side and not visible.) 38-43 mm (no collar on either side)

### Dimensions/Notch (Unit: mm) (The notch is the same for all models.)

\* The combination of cylinder, thumbturn, and other components can be freely selected.

#### ● Lock body



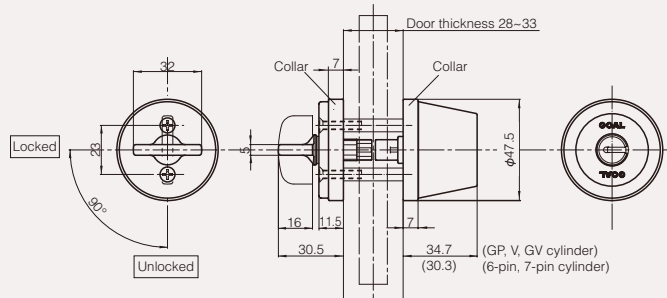
#### ⚠ Precautions:

There are three types of lock body slider head specifications: type with M8 tapping hole, type with M6 tapping hole, and type with no slider head. Be sure to specify one of the types when ordering.

Door thickness: ## mm or more-less than ## mm

#### ● V-TSA-5 (Illustration shows a V18 cylinder, standard type thumbturn.)

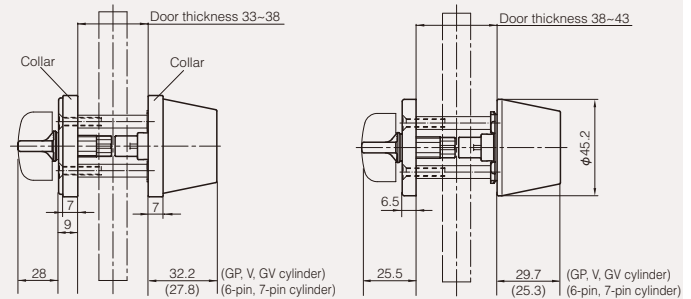
(For door thickness 28-33 mm)



(A collar is used on both sides. Install the collar facing forward so that the "28-33" stamp is visible.)

(For door thickness 33-38 mm)

(For door thickness 38-43 mm)



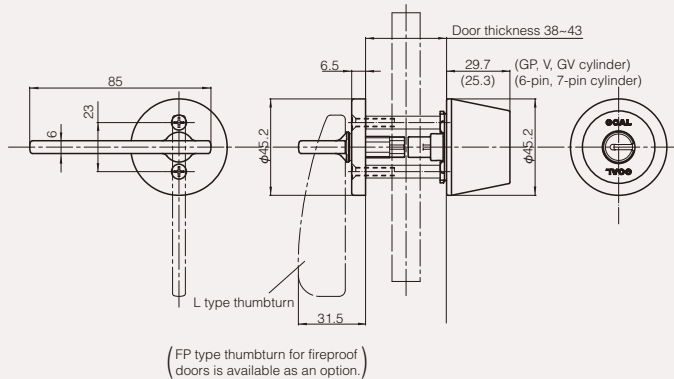
(A collar is used on both sides. Install the collar reversed so that the "28-33" stamp is not visible.)

(A collar is not used.)

Note: For all of the models below, the method of using collar according to the door thickness is the same as TSA-5 above.

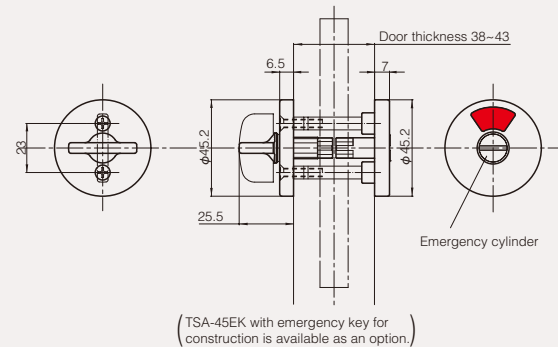
#### ● V-TSA-5L

(Illustration shows a V18 cylinder, L type thumbturn, and door thickness 38-43 mm with no collar used.)



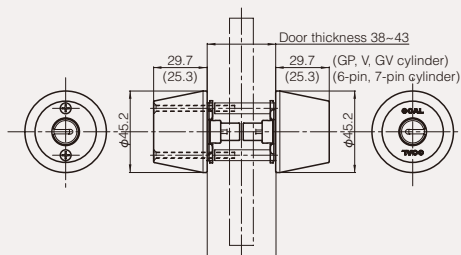
#### ● TSA-45

(Illustration shows an emergency cylinder, standard type thumbturn, and door thickness 38-43 mm with no collar used.)



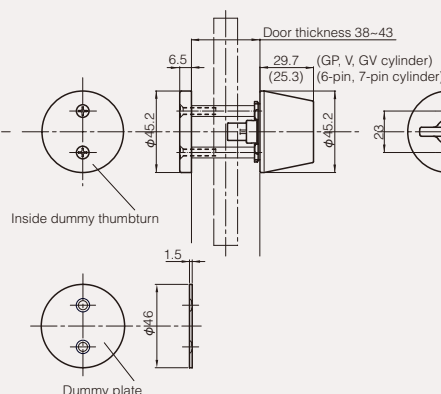
#### ● V-TSA-6

(Illustration shows a V18 cylinder and door thickness 38-43 mm with no collar used.)



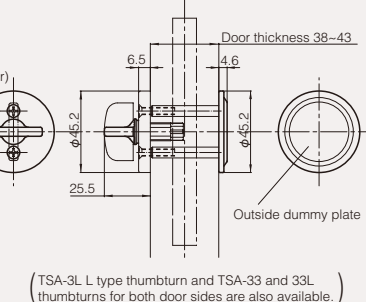
#### ● V-TSA-7

(Illustration shows a V18 cylinder, dummy thumbturn on inside, and door thickness 38-43 mm with no collar used.)



#### ● TSA-3

(Illustration shows a standard thumbturn, dummy thumbturn on outside, and door thickness 38-43 mm with no collar used.)









# 2510

# 2510

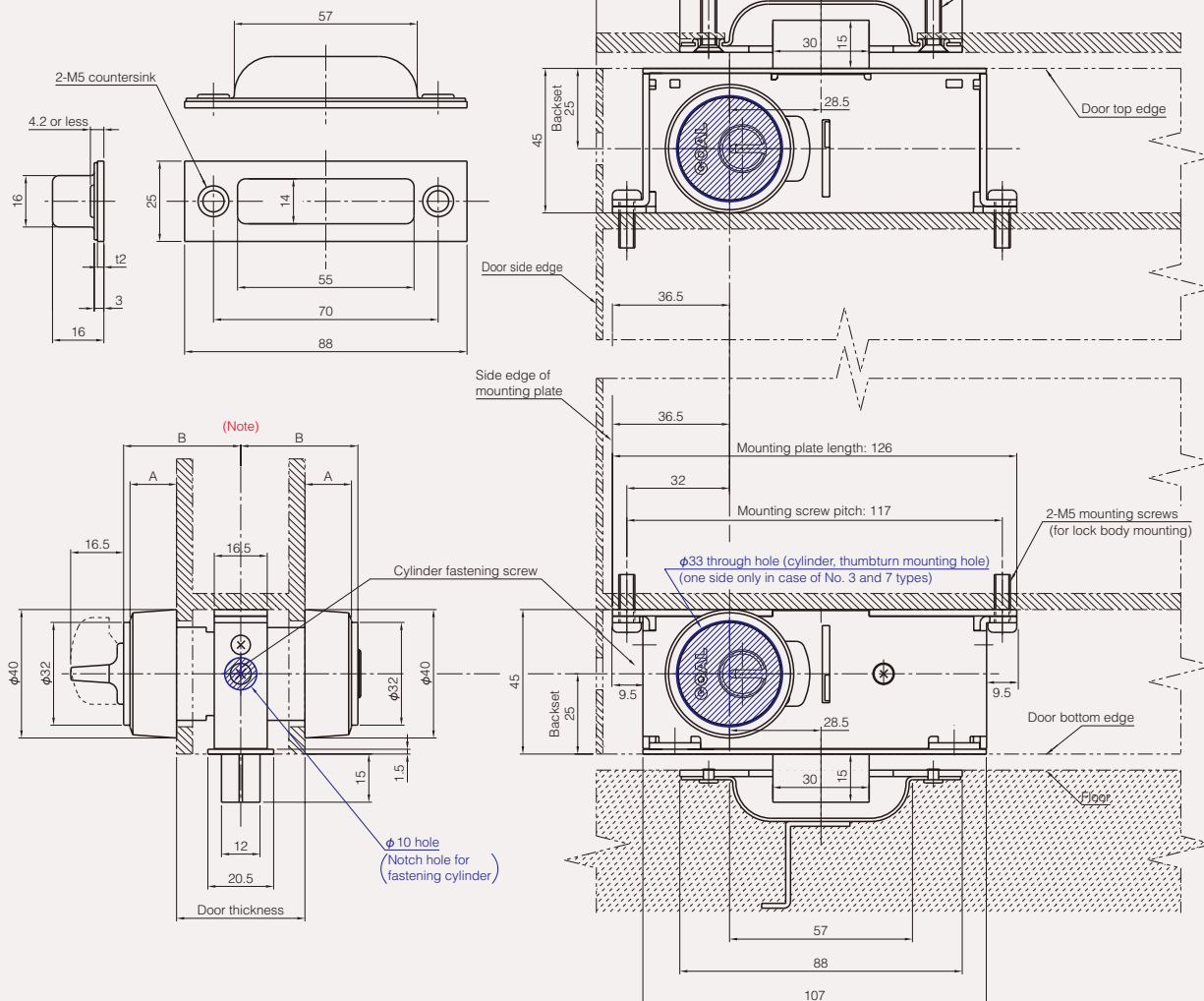
Compatible cylinders		Model No.	Backset	Door thickness (Contact GOAL for more information.)
GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z]	3, 5, 6, 7	25 mm	25~38 / 38~48 / 48~58 mm

Door thickness: ## mm or more~less than ## mm

**■ Dimensions/Notch** (Unit: mm) (The model No. 6 notch is the same as No. 5 in the illustration. However create a thumbturn mounting hole (No. 3) or cylinder mounting hole (No. 7) on one side only.)

- **V-2510-5** (backset 25 mm)  
<Illustration shows example of using model No. 5 with V18 cylinder.>

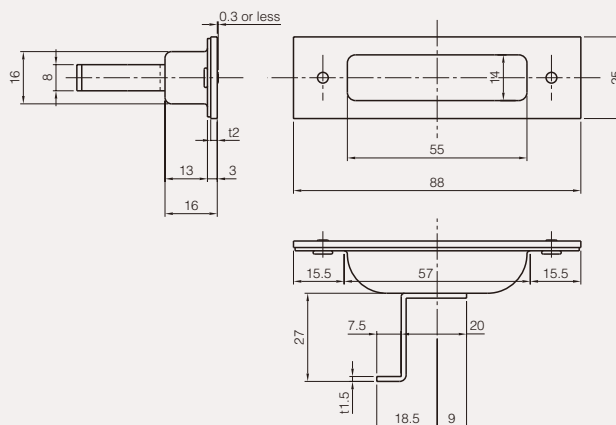
● **2510 top strike** (sold separately)



### ■ Dimensions A and B for cylinders and thumbturns

Door thickness (mm)	Dimension (mm)	
	A	B
25-38	19.5	36.5
38-48	14.5	36.5
48-58	19.5	46.5
58-68	14.5	46.5
68-78	19.5	56.5

● **2510 bottom strike** (sold separately)





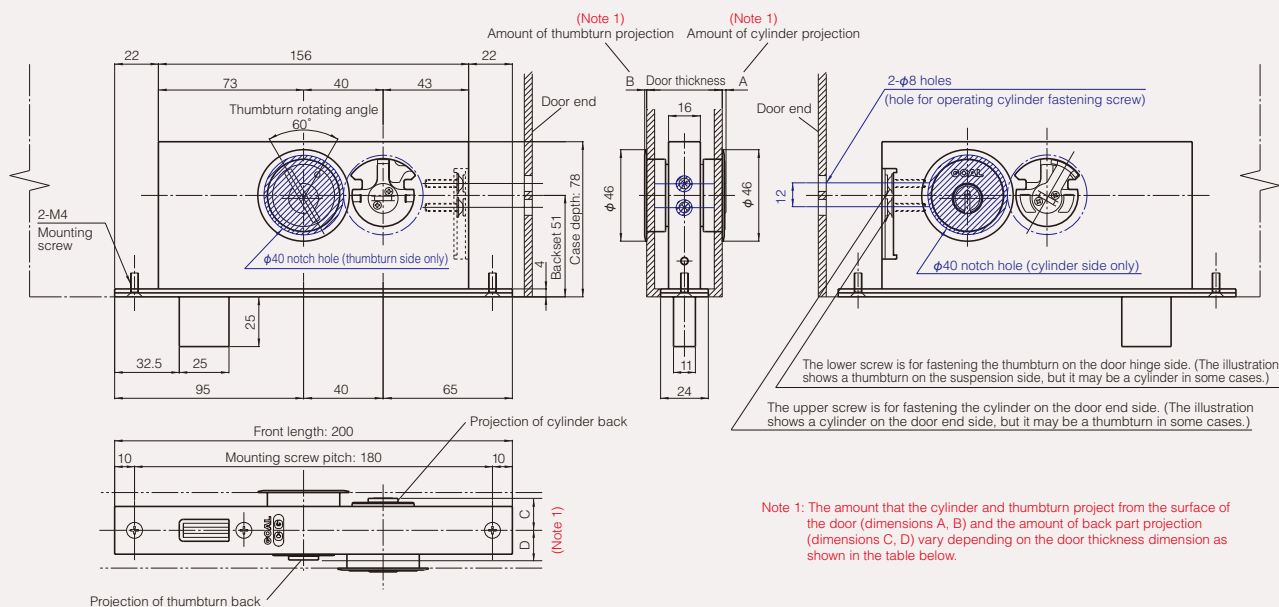




Compatible cylinders		Model No.	Backset	Door thickness (Contact GOAL for more information.)
GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z]	3, 5, 6, 7	51 mm	35~38 / 38~45 / 45~55 / 55~65 / 65~75 mm (Refer to the table in the illustration for details.)


**■ Dimensions/Notch** (Unit: mm) (The model No. 6 notch is the same as No. 5 in the illustration. However create a thumbturn mounting hole (No. 3) or cylinder mounting hole (No. 7) on one side only.)

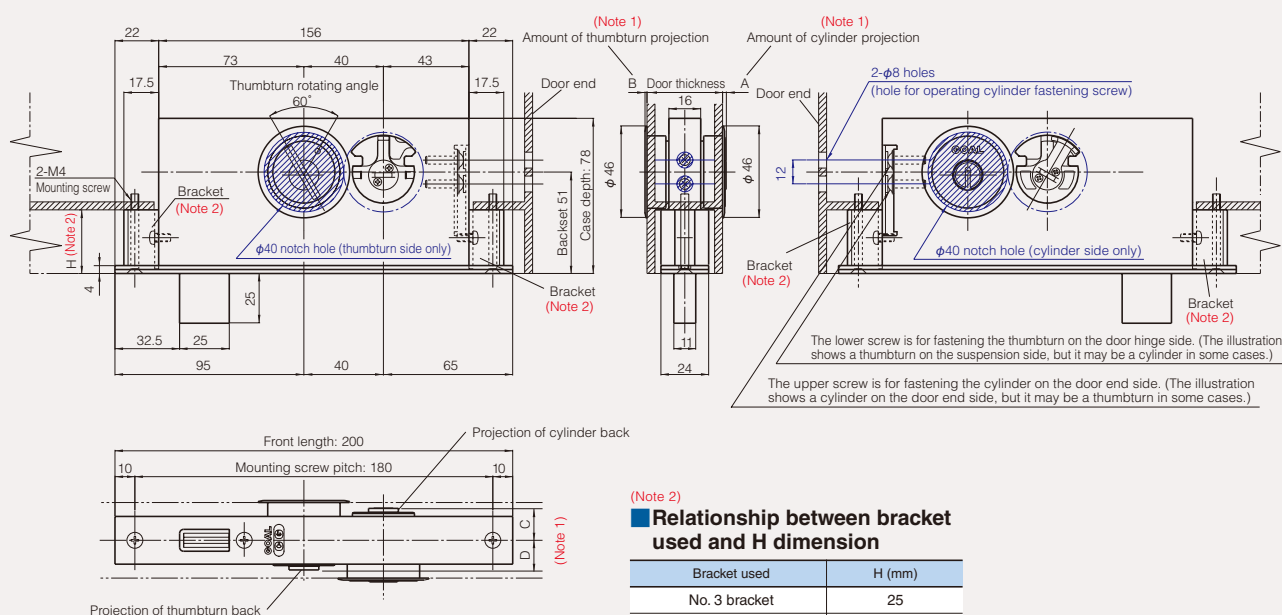
- **V-CG-5** <Illustration shows example of using model No. 5, V18 cylinder, no bracket.>



### Amounts of cylinder and thumbturn projection A, B, C, D according to door thickness and cylinder type

Door thickness (mm)		35–Less than 38			38–Less than 45						45–Less than 55	55–Less than 65	65–Less than 70
		35	36	37	38	39	40	41	42	43			
Amount of cylinder projection A (mm)	GP, V, Z cylinder	4.5	4.0	3.5	1.5	1.0							
	GV cylinder	6	5.5	5.0	3.0	2.5	2.0	1.5	1.0				
	6P cylinder	4.0	3.5	3.0	1.0								
Amount of thumbturn projection B (mm)		2.0			1.0								
Amount of cylinder back projection C (mm)		14.8			16.3						14.8	10.3	14.8
Amount of thumbturn back projection D (mm)		14.9			14.9						10.4	14.9	10.4

- **V-CG-5**  **B** (: with bracket) <Illustration shows model No. 5 / V18 cylinder, with bracket.>  
( indicates bracket No. 1, 2, 3.) (Dimensions not listed are the same as the illustration above.)



(Note 2)

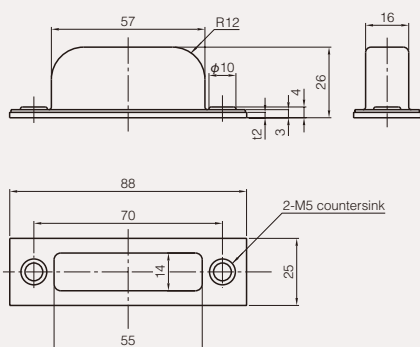
**Relationship between bracket used and H dimension**

Bracket used	H (mm)
No. 3 bracket	25
No. 1 bracket	29
No. 2 bracket	32

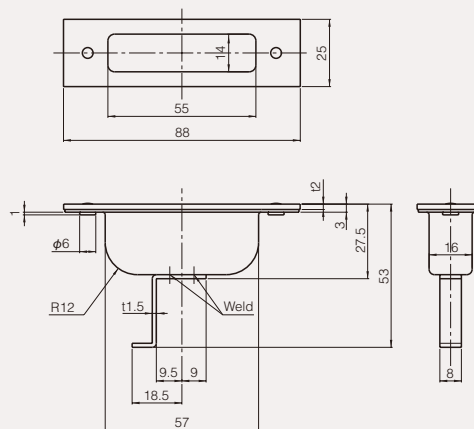
Note 2: There are three bracket types. For the H dimension according to the type of bracket used, refer to the table above.



● **CG top strike** (sold separately)



● **CG bottom strike** (sold separately)



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# BGU Glass sliding door locks

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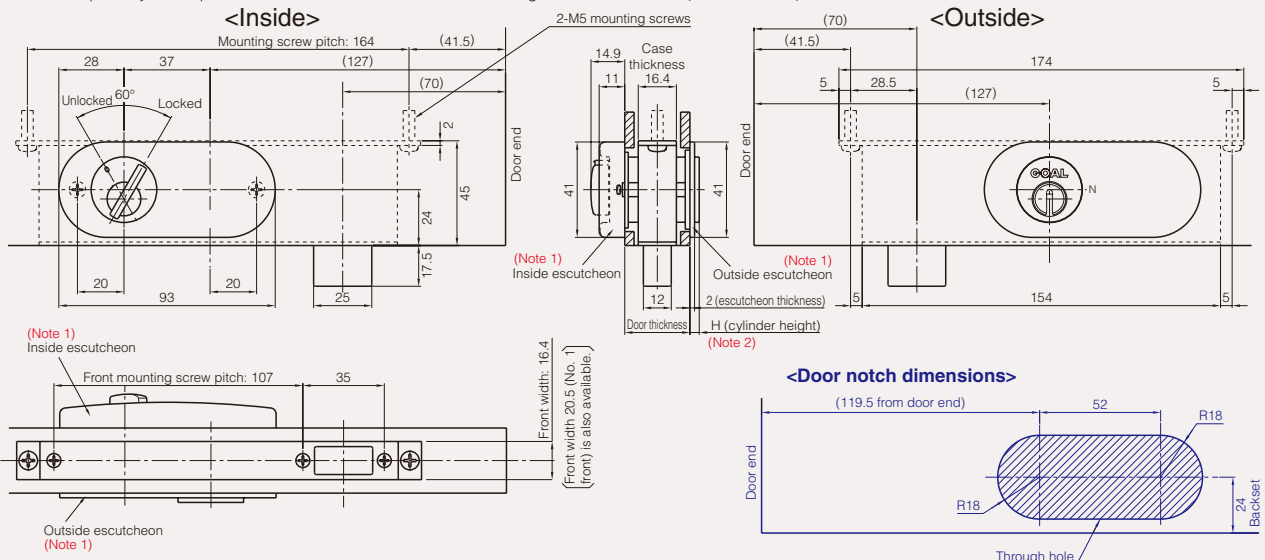
Dimensions

Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z]	3, 5, 6, 7	24 mm
			27~32 / 32~37 / 37~42 / 42~47 mm

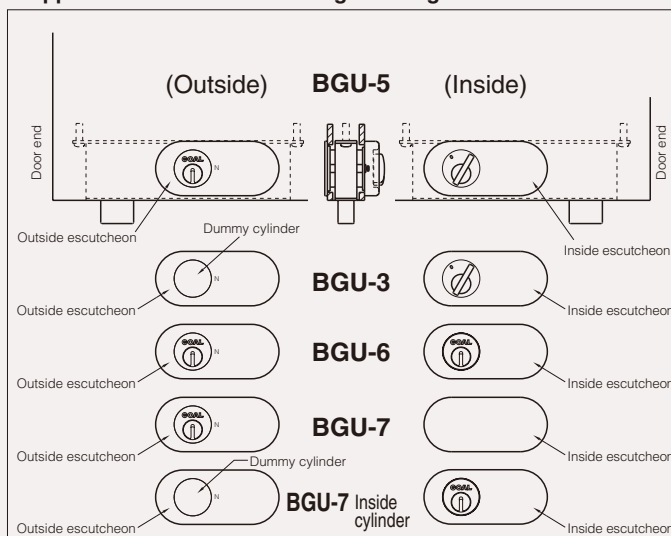
Door thickness: ## mm or more~less than ## mm

### Dimensions/Notch (Unit: mm) (The notch is the same for all models.)

- **V-BGU-5** (backset 24 mm) (standard type) <Illustration shows example of using a V18 cylinder. Dimensions in ( ) are reference dimensions.>
- \* The separately sold top strike and bottom strike are the same as for glass door lock 2510. (Refer to P.132.)



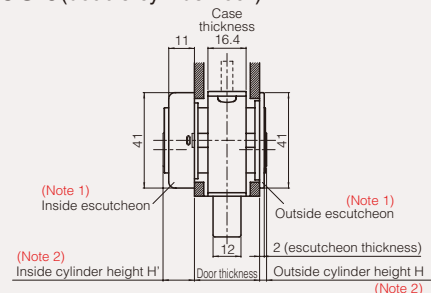
### <Appearance when used on single sliding door>



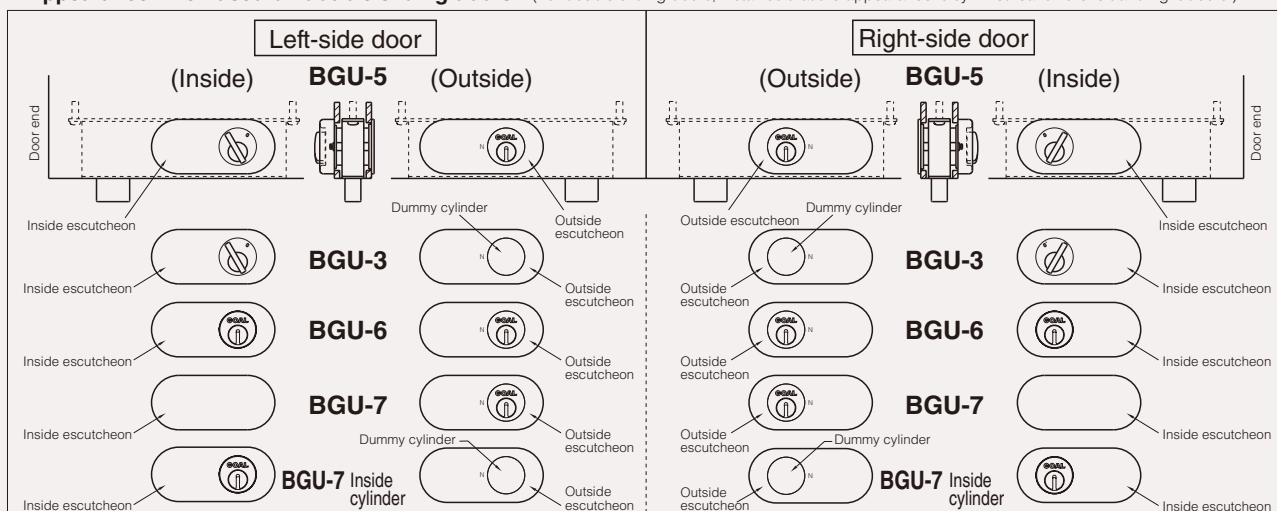
### (Note 2) Cylinder height H according to the model and cylinder type

Cylinder type (symbol)	Model	Outside cylinder Height H (mm)	Inside cylinder Height H' (mm) (model No. 6 only)	Door thickness 27~47 mm	Door thickness 47 mm or more
GP, V18 cylinder (GP, V)	5, 6, 7	2.5	13.5	11.5	
GV cylinder (GV)		4	15	13	
6-pin cylinder (P)		2.5	13	11.5	
7-pin cylinder (Z)		3	13.5	12	

### ● BGU-6(double-cylinder lock)



### <Appearance when used on double sliding doors> (For double sliding doors, install so that the appearance is symmetrical on the left and right doors.)





**LGH (A, B)**

# Emergency locks (with cylinder-type emergency unlock device)

## Lever handle locks LGH (A, B)

Note: Universal Key System (UKS2) is not supported.

Model	Compatible cylinders	Model No.*	Backset	Door thickness (Contact GOAL for more information.)
LGH(A,B)	GP [GP] 6 pins [P] V18 [V] 7 pins [Z] GV [GV]	31, 5, 6, W6, 7, 71, W71	51, 64, 76 mm	33~43 / 43~53 mm

### Dimensions/Notch (Unit: mm)

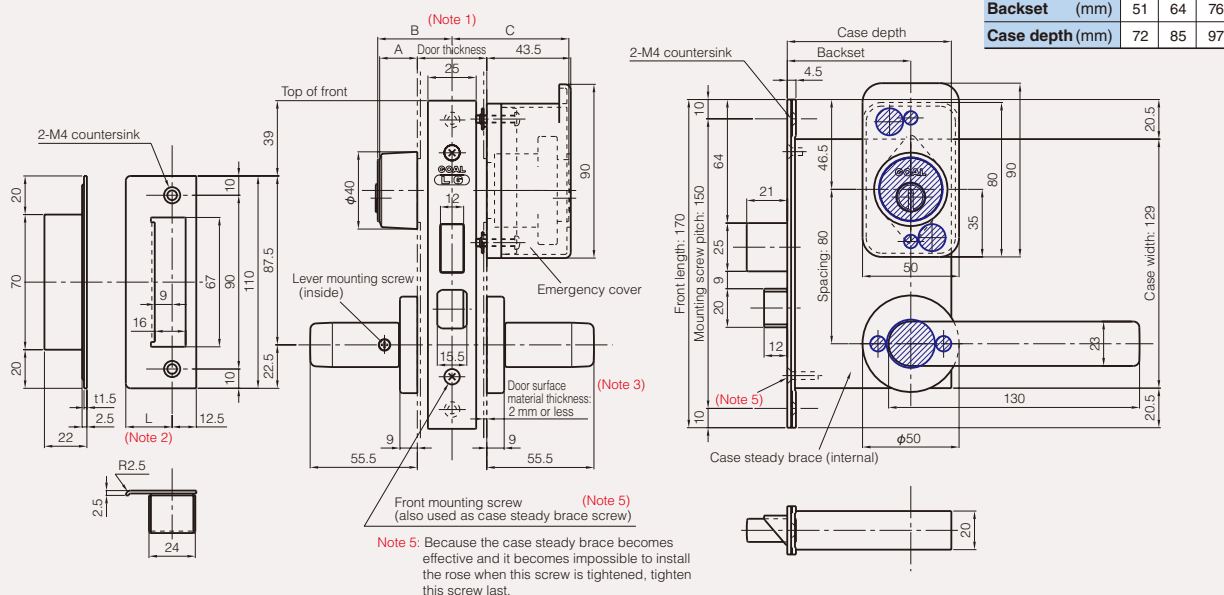
Door thickness: ## mm or more-less than ## mm

#### ● Lever handle lock-type emergency locks V-LGH(A,B)-6NU (backset 51, 64, 76 mm)

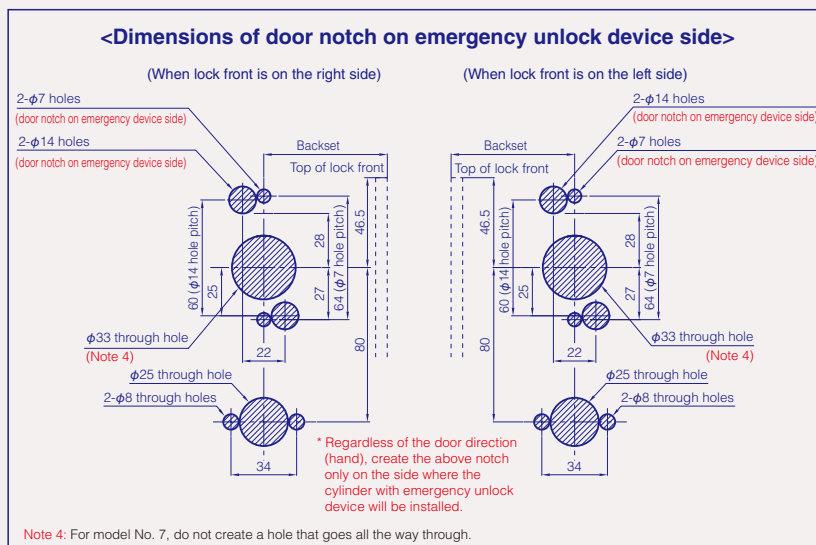
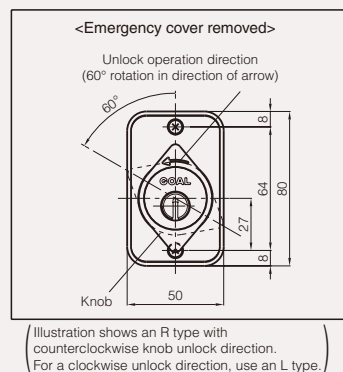
&lt;Illustration shows example of using a V18 cylinder, model No. 6, NU lever handle, cylinder-type emergency unlock device (R type).&gt;

\* LGKH (A, B) with hooked deadbolts and LGFH (A, B) with anti-friction latch bolt are also available. Except for the different deadbolt, latch, and strike plate, all parts are the same as LGH (A, B). For the LGK and LGF dimensions, refer to P.96, 97.

\* Please contact GOAL regarding off-set installation.



Note 3: Cylinder-type emergency unlock devices are installed by fitting them into the door.  
The door surface material thickness must be 2 mm or less.



(Note 1)

### Dimensions A, B, and C for cylinders

Door thickness (mm)	Dimension (mm)		
	A (Collar height)	B (Cylinder height)	C (Emergency device cylinder height)
33~43	19.5	38.5	62.5
43~53	14.5	38.5	67.5
53~63	19.5	48.5	72.5
63~73	14.5	48.5	77.5
73~83	19.5	58.5	82.5

(Note 2)

### Strike plate lip (L) dimension

For single leaf door			For double leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)	Door thickness (minimum~less than) mm	Classification	L dimension (mm)
33~38	24L	24	33~37	18L	18
38~43			37~41	20L	20
43~48	30L	30	41~45	22L	22
48~53			45~49	24L	24
53~58	34L	34	49~53	26L	26
58~63			53~57	28L	28
			57~61	30L	30
			61~65	32L	32

\* Indicate the door thickness when ordering.

### ⚠ Precautions when selecting a strike plate

The strike plate shown in the table below is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount.

Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.

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ASH (A, B)

# Emergency locks (with cylinder-type emergency unlock device)

## Mortise locks ASH (A, B)

Note: Universal Key System (UKS2) is not supported.

Model	Compatible cylinders	Model No.*	Backset	Door thickness (Contact GOAL for more information.)
ASH(A,B)	GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z] 31, 5, 6, W6, 7, 71, W71	64, 76 mm	33~43 / 43~53 mm

Door thickness: ## mm or more~less than ## mm

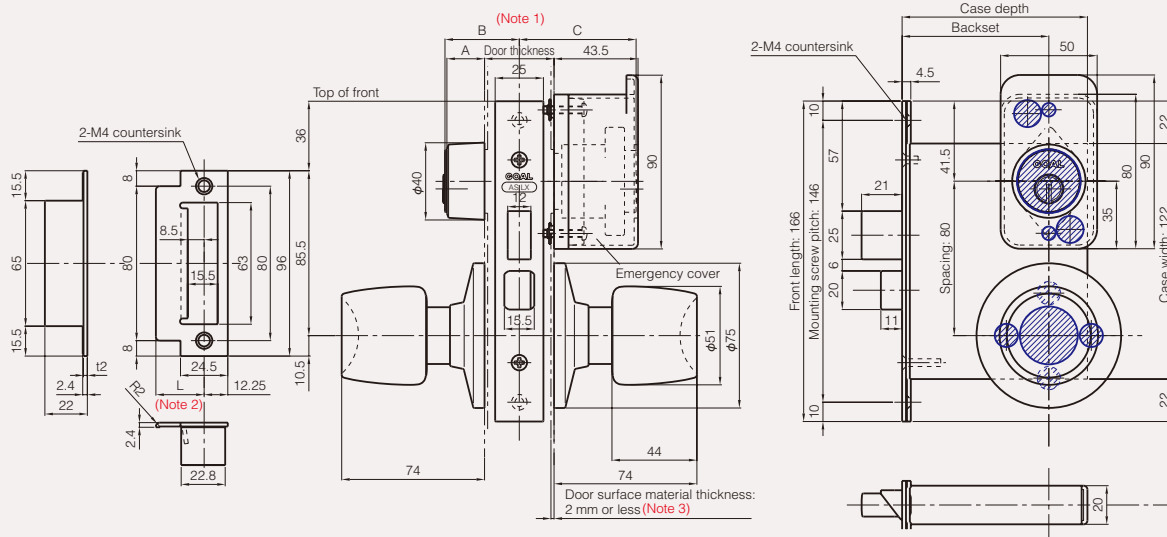
### ■ Dimensions/Notch (Unit: mm)

#### ● Mortise lock type emergency lock V-ASH(A,B)-6Q (backset 64, 76 mm)

&lt;Illustration shows example of using a V18 cylinder, model No. 6, Q type knob, cylinder-type emergency unlock device (R type).&gt;

\* Please contact GOAL regarding off-set installation.

Backset (mm)	64	76
Case depth (mm)	84	96

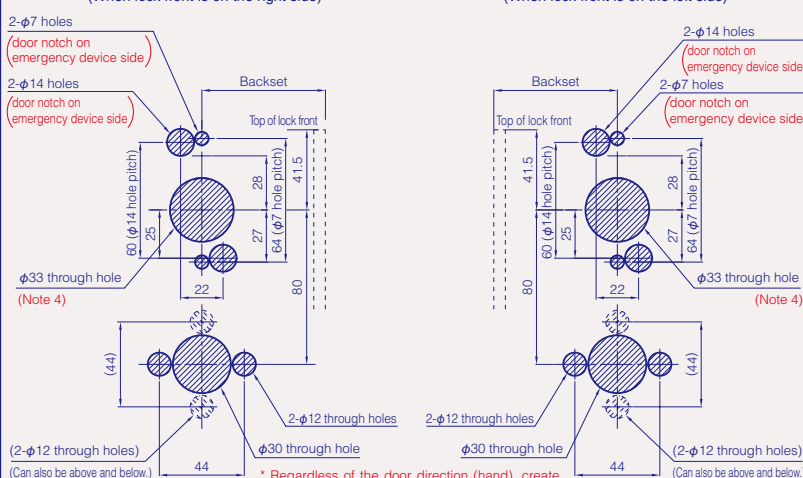


Note 3: Cylinder-type emergency unlock devices are installed by fitting them into the door. The door surface material thickness must be 2 mm or less.

### <Dimensions of door notch on emergency unlock device side>

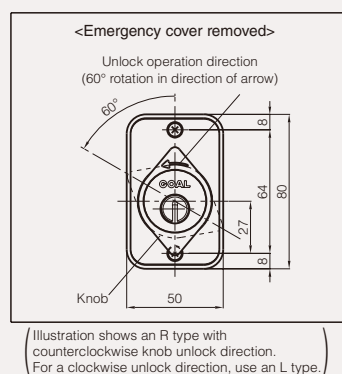
(When lock front is on the right side)

(When lock front is on the left side)



\* Regardless of the door direction (hand), create the above notch only on the side where the cylinder with emergency unlock device will be installed.

Note 4: For model No. 7, do not create a hole that goes all the way through.



(Illustration shows an R type with counterclockwise knob unlock direction. For a clockwise unlock direction, use an L type.)

(Note 1)

### ■ Dimensions A, B, and C for cylinders

Door thickness (mm)	Dimension (mm)		
	A (Collar height)	B (Cylinder height)	C (Emergency device) (cylinder height)
33~43	19.5	38.5	62.5
43~53	14.5	38.5	67.5
53~63	19.5	48.5	72.5
63~73	14.5	48.5	77.5
73~83	19.5	58.5	82.5

(Note 2)

### ■ Strike plate lip (L) dimension

For single leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
33~43	25L	25
43~53	30L	30
53~60	33L	33

\* Indicate the door thickness when ordering.

For double leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
33~37	18L	18
37~42	20L	20
43~47	23L	23
47~51	25L	25
53~57	28L	28
57~61	30L	30
63~67	33L	33

### ⚠ Precautions when selecting a strike plate

The strike plate shown in the table below is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount. Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.

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# Emergency locks (with cylinder-type emergency unlock device)

## Sliding door locks

### (hooked deadbolt) SXH (A, B)

Note: Universal Key System (UKS2) is not supported.

Model	Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
<b>SXH (A, B)</b>	GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z] 31, 5, 6, W6, 7, 71, W71	51 mm	33~43, 43~53 mm (Gap: 5 mm or less)

Door thickness: ## mm or more~less than ## mm

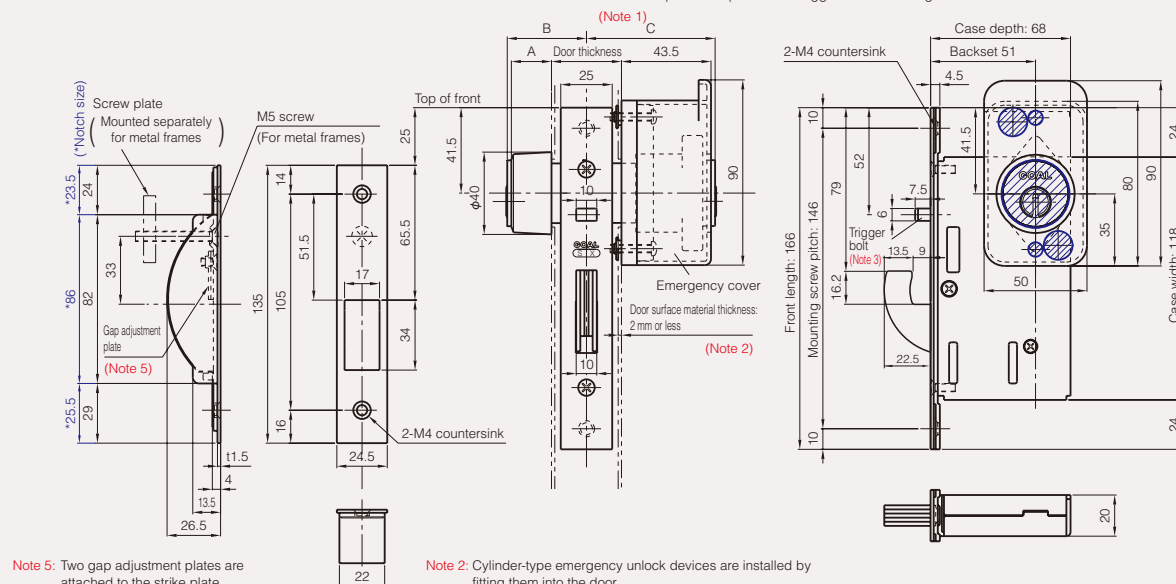
#### ■ Dimensions/Notch (Unit: mm)

#### ● Sliding door lock (hooked deadbolt) type emergency locks V-SXH(A,B)-6

(backset 51 mm) <Illustration shows example of using a V18 cylinder, model No. 6, cylinder-type emergency unlock device (R type). >

\* Please contact GOAL regarding off-set installation.

Note 3: When the door is closed, the trigger bolt is retracted inside the lock case and is extended when the hooked deadbolt is extended. The hooked deadbolt is not extended if no object (strike plate) is present to prevent the trigger bolt from being extended.



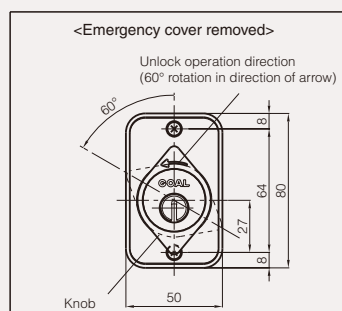
Note 5: Two gap adjustment plates are attached to the strike plate. Use them according to the gap size.

Note 2: Cylinder-type emergency unlock devices are installed by fitting them into the door. The door surface material thickness must be 2 mm or less.

(Note 5)

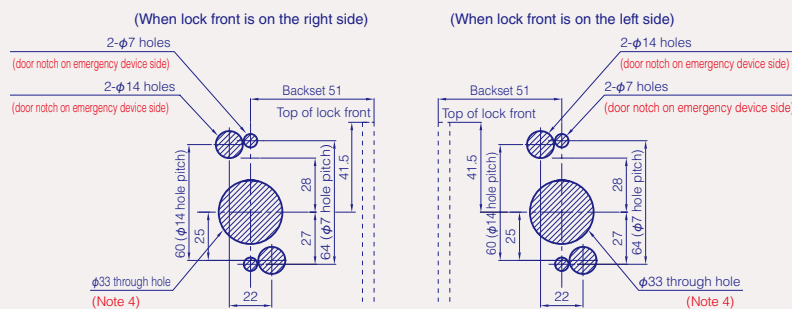
#### ■ Using the gap adjustment plates

Gap (door and jamb)	0~2.5 mm	2.5~3.8 mm	3.8~5 mm
Plates used	Use both adjustment plates.	Remove one adjustment plate.	Remove both adjustment plates.



(Illustration shows an R type with counterclockwise knob unlock direction. For a clockwise unlock direction, use an L type.)

#### <Dimensions of door notch on emergency unlock device side>



\* Regardless of the door direction (hand), create the above notch only on the side where the cylinder with emergency unlock device will be installed.

Note 4: For model No. 7, do not create a hole that goes all the way through.

(Note 1)

#### ■ Dimensions A, B, and C for cylinders

Door thickness (mm)	Dimension (mm)		
	A (Collar height)	B (Cylinder height)	C (Emergency device cylinder height)
33~43	19.5	38.5	62.5
43~53	14.5	38.5	67.5
53~63	19.5	48.5	72.5
63~73	14.5	48.5	77.5
73~83	19.5	58.5	82.5

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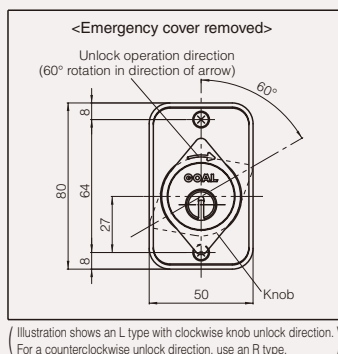
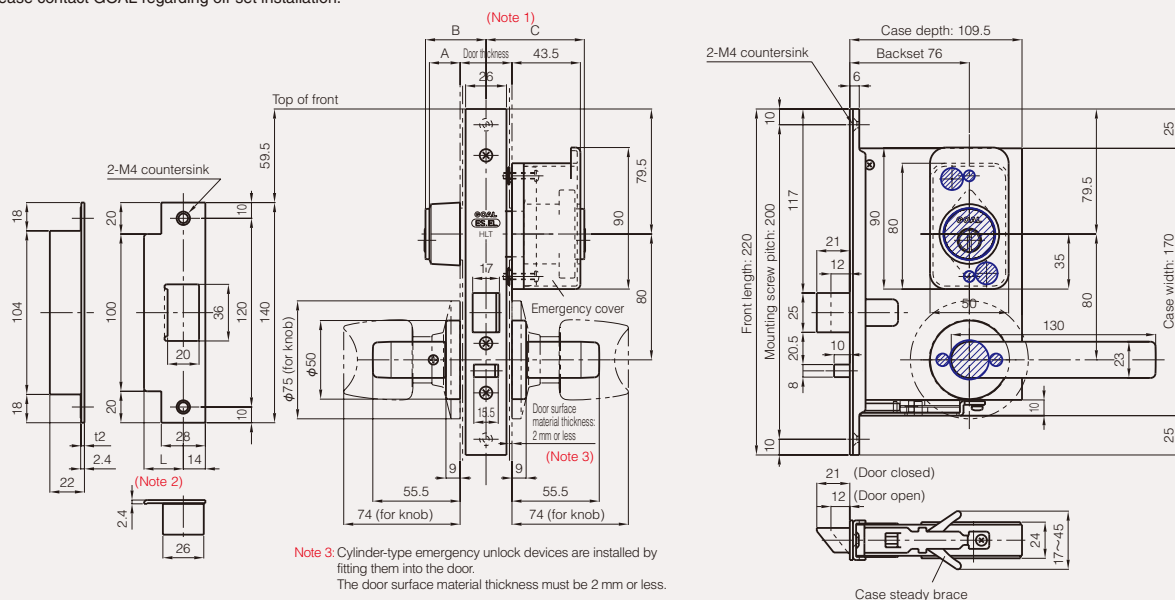


**■ Dimensions/Notch** (Unit: mm)

- Lever handle lock-type emergency locks **V-HLTH(A,B)-6NU** (backset 76 mm)  
 <Illustration shows example of using a V18 cylinder, model No. 6, **NU** lever handle, cylinder-type emergency unlock device (L type).>

- Mortise lock (knob) type emergency lock **V-HSTH(A,B)-6Q** (backset 76 mm)  
 <The knob is indicated in the illustration by a two-dot chain line. The notch hole is different from the lever.>

\* Please contact GOAL regarding off-set installation.




(Note 1)

### ■ Dimensions A, B, and C for cylinders

Door thickness (mm)	Dimension (mm)		
	A (Collar height)	B (Cylinder height)	C (Emergency device cylinder height)
33~43	19.5	38.5	62.5
43~53	14.5	38.5	67.5
53~63	19.5	48.5	72.5
63~73	14.5	48.5	77.5
73~83	19.5	58.5	82.5

(Note 2)

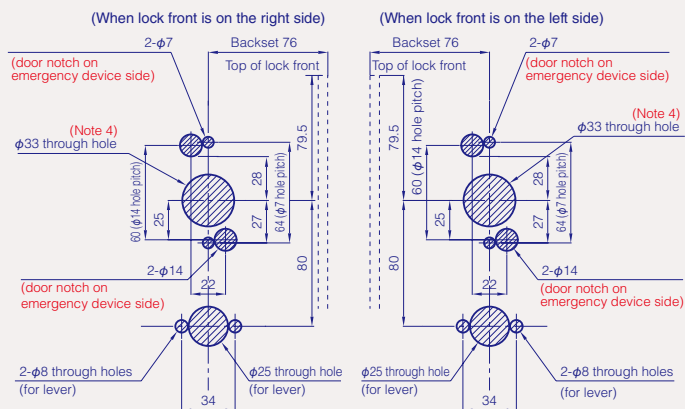
■ **Strike plate lip (L) dimension**

For single leaf door 		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
36~43	25L	25
43~53	30L	30
53~60	33L	33

\* Indicate the door thickness when ordering.

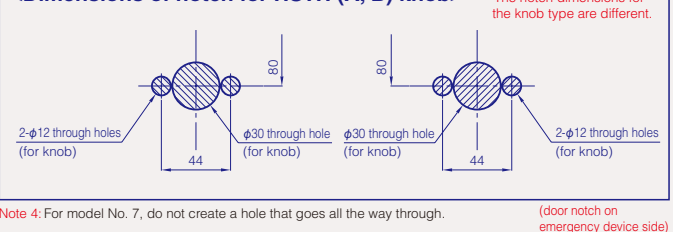
For double leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
36~37	18L	18L
37~42	20L	20L
43~47	23L	23L
47~51	25L	25L
53~57	28L	28L

<Dimensions of door notch on HLTH (A, B) emergency unlock device side>



\* Regardless of the door direction (hand), create the above notch only on the side where the cylinder-type emergency unlock device will be installed.

<Dimensions of notch for HSTH (A, B) knob>



**Note 4:** For model No. 7, do not create a hole that goes all the way through.

(door notch on  
emergency device side)

### Precautions when selecting a strike plate

The strike plate shown in the table at left is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount.

Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.



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## Dimensions

# Dead locks (automatic locking locks)

## HNH (A, B)

Note: Universal Key System (UKS2) is not supported.

Model	Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
HNLH(A,B)	GP [GP]	6 pins [P]	51 mm	33~43, 43~53 mm (Gap: 6 mm or less)
HNHB(A,B)	V18 [V]	7 pins [Z]		
HNSH(A,B)	GV [GV]			

Door thickness: ## mm or more~less than ## mm

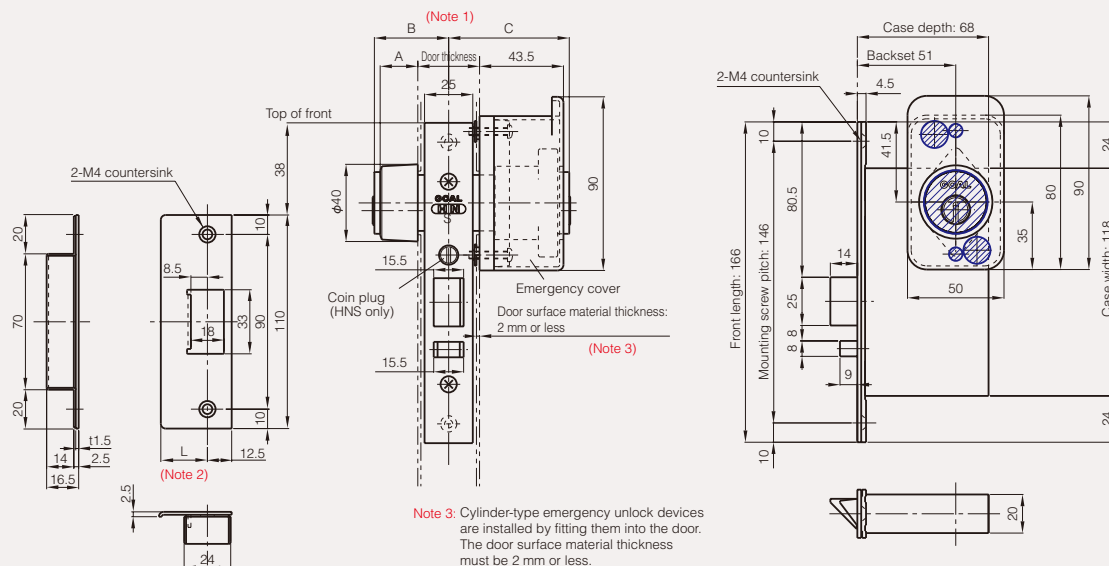
## ■ Dimensions/Notch (Unit: mm)

## ● Automatic locking dead lock type emergency locks V-HNSH(A,B)-6

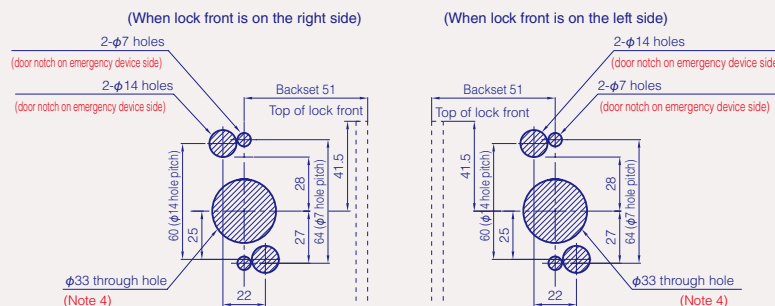
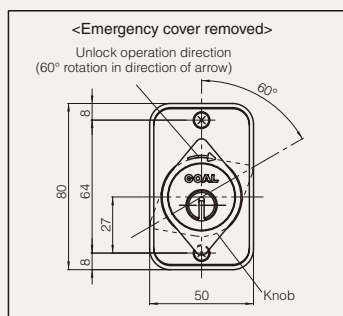
(backset 51 mm) (\* Four types of HN automatic locking dead locks (HNL, HNB, HNS, HNT) are available, each with different functions.)

&lt;Illustration shows example of using HNS, V18 cylinder, model No. 6, cylinder-type emergency unlock device (L type). &gt;

\* Please contact GOAL regarding off-set installation.



## &lt;Dimensions of door notch on emergency unlock device side&gt;



(Note 2)

## ■ Strike plate lip (L) dimension

For single leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
33~38	24L	24
38~43		
43~48	30L	30
48~53		

\* Indicate the door thickness when ordering.

For double leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
33~37	18L	18
37~41	20L	20
41~45	22L	22
45~49	24L	24
49~53	26L	26

(Note 1)

## ■ Dimensions A, B, and C for cylinders

Door thickness (mm)	Dimension (mm)		
	A (Collar height)	B (Cylinder height)	C (Emergency device cylinder height)
33~43	19.5	38.5	62.5
43~53	14.5	38.5	67.5
53~63	19.5	48.5	72.5
63~73	14.5	48.5	77.5
73~83	19.5	58.5	82.5

## ▲ Precautions when selecting a strike plate

The strike plate shown in the table above is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount.

Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.



## Lever handle locks AHLH Mortise locks AHH

Note: Universal Key System (UKS2) is not supported.

Model	Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
AHLH	GP [GP] V18 [V]	6 pins [P] 7 pins [Z]	5, 6, 7	76 mm 100 mm
AHH	GV [GV]			35~50 mm

Door thickness: ## mm or more~less than ## mm

### Dimensions/Notch (Unit: mm)

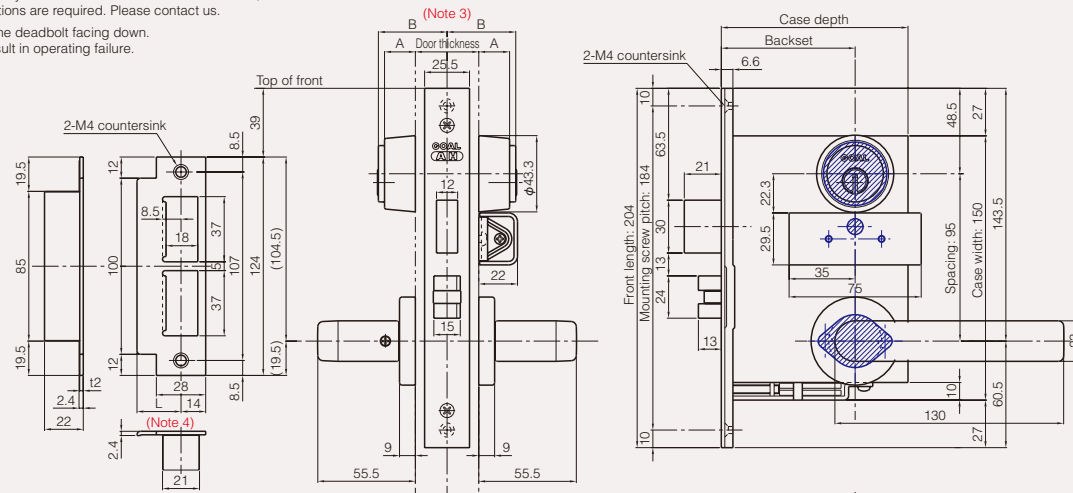
(Create a mounting hole for the emergency device on one side only. The model No. 5 notch is the same as No. 6 in the illustration. However for No. 7, create a cylinder mounting hole on one side only.)

#### ● V-AHLH-6NU (backset 76, 100 mm)

<Illustration shows a V18 cylinder, model No. 6, NU lever handle. >

Note 1: Although emergency devices can be installed on both sides, special specifications are required. Please contact us.

Note 2: Do not use with the deadbolt facing down. Doing so may result in operating failure.



(Note 4)

#### Strike plate lip (L) dimension

For single leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
35~42.5	25L	25
42.5~50	30L	30

For double leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
35~37	18L	18
37~42	20L	20
43~47	23L	23
47~50	25L	25

\* Indicate the door thickness when ordering.

#### ⚠ Precautions when selecting a strike plate

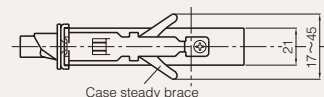
The strike plate shown in the table above is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount.

Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.

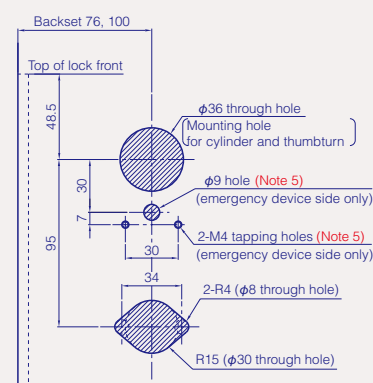
(Note 3)

#### Dimensions A and B for cylinders

Door thickness (mm)	Dimension (mm)	
	A (Collar height)	B (Cylinder height)
35~50	17.5	39
50~63	17.5	46
63~73	22.5	56
73~83	17.5	56



#### <Dimensions of AHLH door notch>

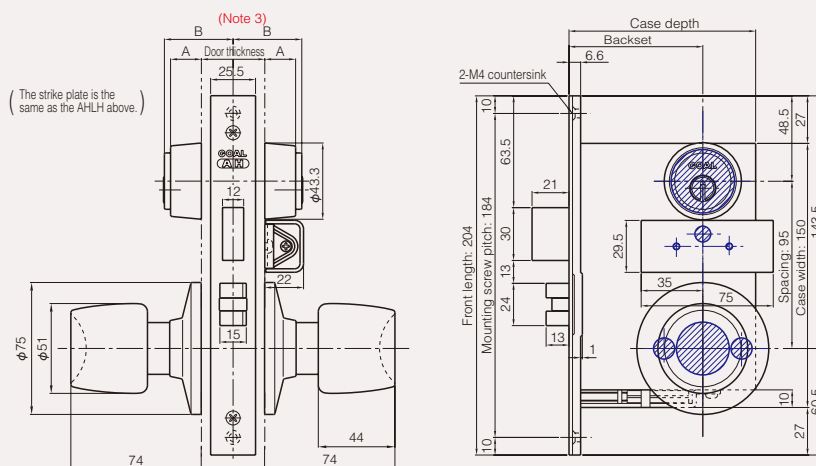


Note 5: Create the 9 hole and 2-M4 tapping holes only on the side where the emergency device will be installed.

#### ● V-AHH-6Q (backset 76, 100 mm)

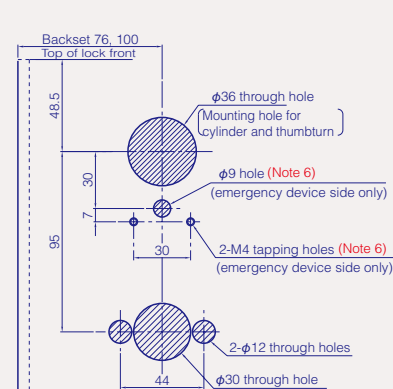
<Illustration shows a V18 cylinder, model No. 6, Q type knob. >

Backset (mm)	76	100
Case depth (mm)	106	130



(\* Cup handles can also be used.)

#### <Dimensions of AHH door notch>



Note 6: Create the 9 hole and 2-M4 tapping holes only on the side where the emergency device will be installed.

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## Emergency locks (with emergency unlock device) Dead locks HDH Dead locks AHDH

Note: With AHDH, Universal Key System (UKS2) is not supported.

Model	Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
HDH	GP [GP] V18[V]	6 pins [P] 7 pins [Z]	5, 6, 7	38, 51, 64, 76 mm
AHDH	GV [GV]			76, 100 mm

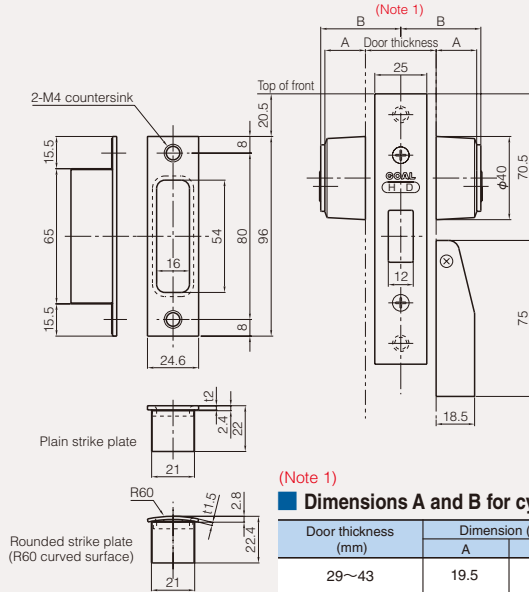
Door thickness: ## mm or more~less than ## mm

### ■ Dimensions/Notch (Unit: mm) (Create a mounting hole for the emergency device on one side only.)

The model No. 5 notch is the same as model No. 6 in the illustration. However for No. 7, create a cylinder mounting hole on one side only.)

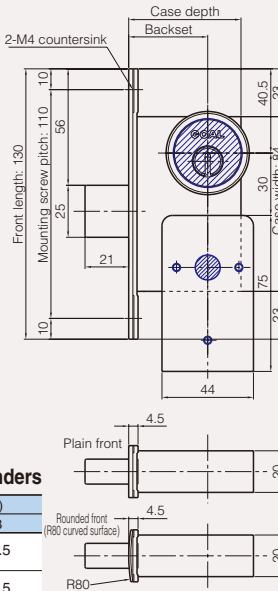
#### ● V-HDH-6(backset 38, 51, 64, 76 mm) <Illustration shows a V18 cylinder, model No. 6. >

Backset (mm)	38	51	64	76
Case depth (mm)	54.5	68.5	81.5	93.5

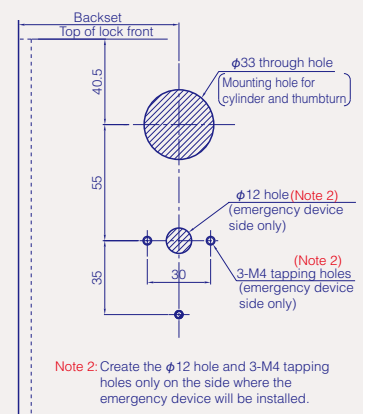


#### ■ Dimensions A and B for cylinders

Door thickness (mm)	Dimension (mm)	
	A	B
29~43	19.5	38.5
43~53	14.5	38.5
53~63	19.5	48.5
63~73	14.5	48.5
73~83	19.5	58.5



#### <Door notch dimensions>



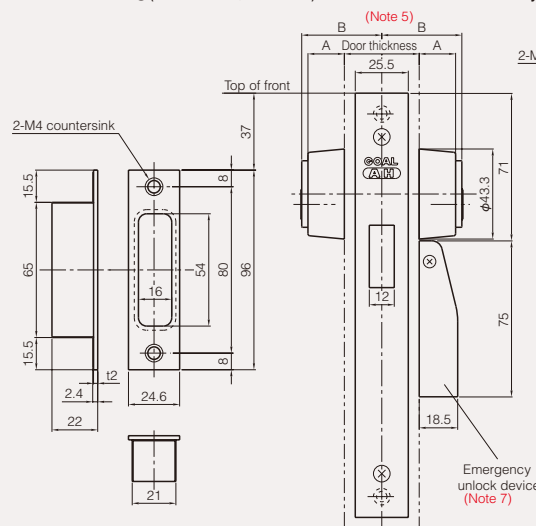
Note 2: Create the φ12 hole and 3-M4 tapping holes only on the side where the emergency device will be installed.

Note 3: Although emergency devices can be installed on both sides, special specifications are required. Please contact us.

Note 4: An emergency device cannot be installed onto the body when the deadbolt throw is 16 mm.

Backset (mm)	76	100
Case depth (mm)	106	130

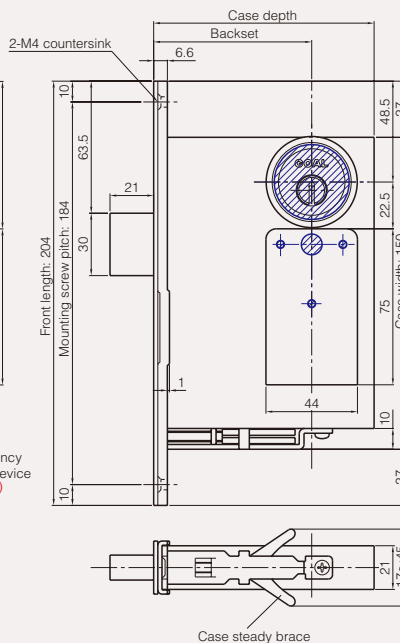
#### ● V-AHDH-6(backset 76, 100 mm) <Illustration shows a V18 cylinder, model No. 6. >



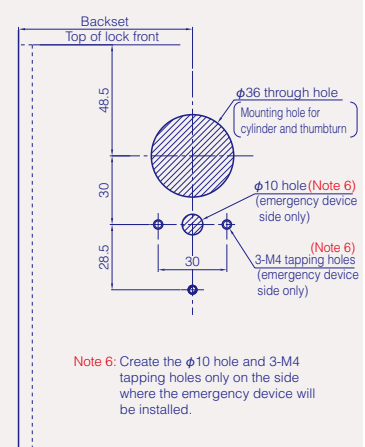
(Note 5)

#### ■ Dimensions A and B for cylinders

Door thickness (mm)	Dimension (mm)	
	A (Collar height)	B (Cylinder height)
35~50	17.5	39
50~63	17.5	46
63~73	22.5	56
73~83	17.5	56



#### <Door notch dimensions>



Note 6: Create the φ10 hole and 3-M4 tapping holes only on the side where the emergency device will be installed.

Note 7: The AHDH emergency unlock device model is the PHDH emergency device.

Note 8: Do not use AHDH with the deadbolt facing down. Doing so may result in operating failure.

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Note: Universal Key System (UKS2) is not supported.

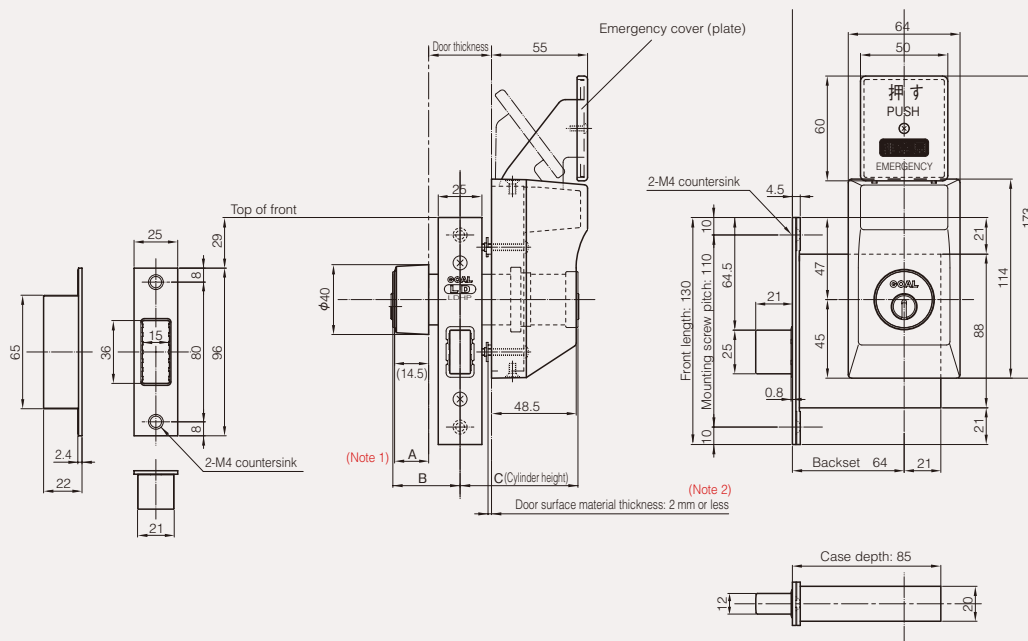
Compatible cylinders	Model No.*	Backset	Door thickness (Contact GOAL for more information.)
GP[GP] V18[V] GV[GV]	6 pins [P] 7 pins [Z]	31, 5, 6, W6, 7, 71, W7, W71	64 mm
			33~43, 43~53 mm

Door thickness: ## mm or more~less than ## mm

### ■ Dimensions/Notch (Unit: mm)

- Dead lock type emergency locks **V-LDHPA-6(R)** (backset 64 mm) <Illustration shows example of using V18 cylinder, model No. 6, one-touch emergency unlock device (R type). > (Note 3)

\* Please contact GOAL regarding off-set installation.



Note 2: One-touch emergency unlock devices are installed by fitting them into the door. The door surface material thickness must be 2 mm or less.

Note 3: Emergency unlock devices have handing. The R type is installed onto the right side of the door when viewed from the lock front, while the L type is installed on the left side. Illustration shows R type.

(Note 1)

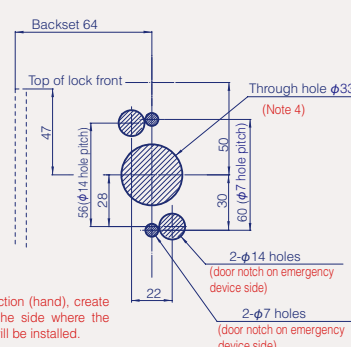
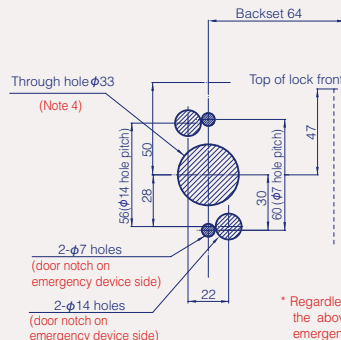
### ■ LDHPA: Dimensions A, B, and C for cylinders

Door thickness (mm)	Dimension (mm)		
	A (Collar height)	B (Cylinder height)	C (Cylinder height on emergency device side)
33~43	19.5	38.5	67.5
43~53	14.5	38.5	72.5

### <Dimensions of door notch on LDHPA emergency unlock device side>

(L type: When emergency device is on left side as viewed from lock front)

(R type: When emergency device is on right side as viewed from lock front)



\* Regardless of the door direction (hand), create the above notch only on the side where the emergency unlock device will be installed.

Note 4: For model No. 7, do not create a hole that goes all the way through.









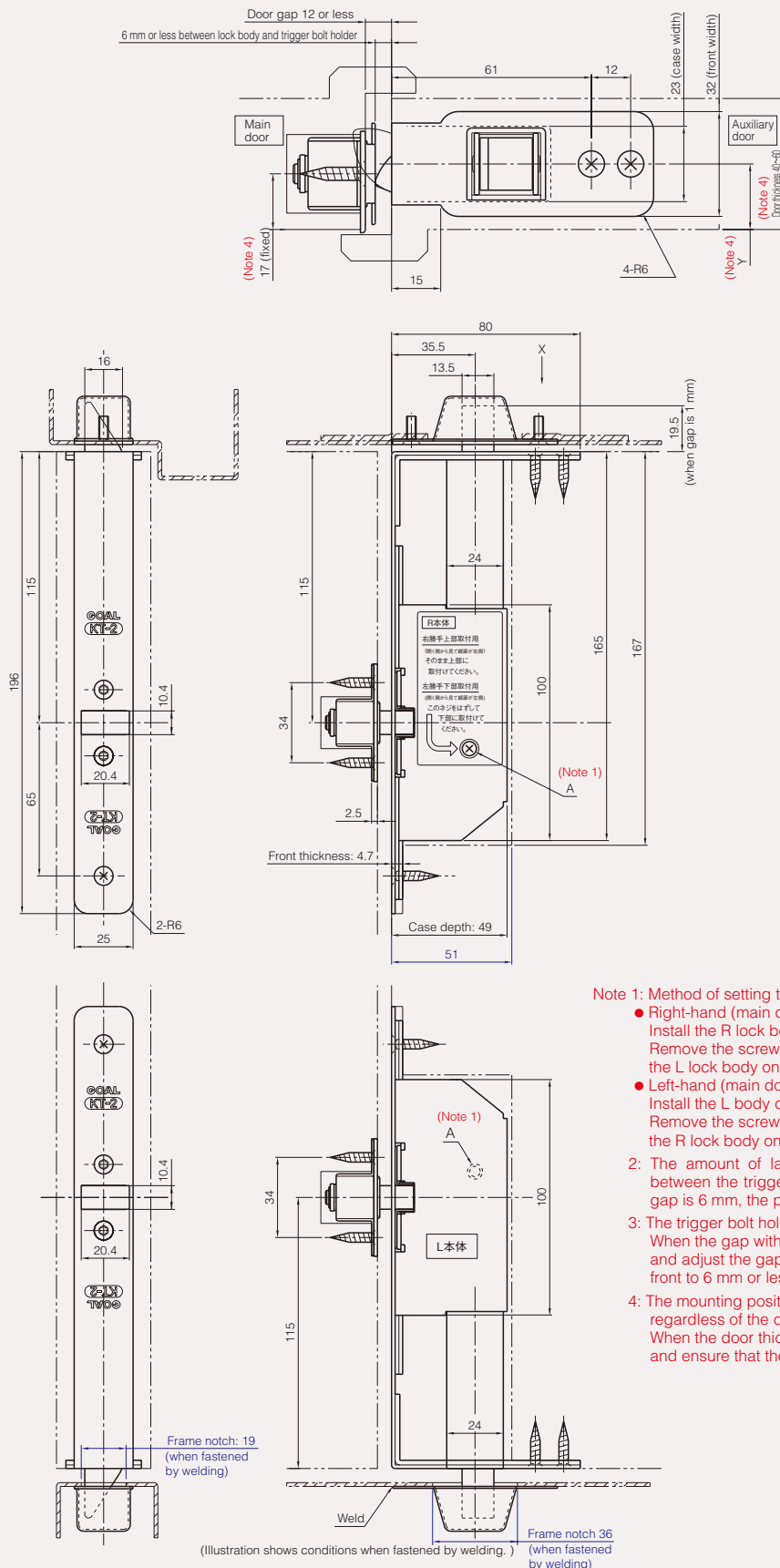


# Dimensions/Notch (Unit: mm)

Door thickness: ## mm or more~less than ## mm

- **KT-2WU (for wooden doors)** (The trigger bolt holder and strike plate may be the same as steel doors in some cases. Refer to the previous page.)

## X view



Note 1: Method of setting the KT-2U, KT-2WU lock handing

- Right-hand (main door on right when viewed from opened side)  
Install the R lock body directly onto the door top.  
Remove the screw from part A of the L lock body screw and install the L lock body onto the door bottom.
- Left-hand (main door on left when viewed from opened side)  
Install the L body directly onto the door top.  
Remove the screw from part A of the R lock body screw and install the R lock body onto the door bottom.

2: The amount of latch projection is decided based on the gap between the trigger bolt holder and the lock body front. When the gap is 6 mm, the projection is approximately 16 mm.

3: The trigger bolt holder includes a gap adjustment function. When the gap with the door is large, turn the adjustment screw and adjust the gap between the trigger bolt holder and lock body front to 6 mm or less.

4: The mounting position of the trigger bolt holder is the same regardless of the door thickness. When the door thickness is 60 mm or more, install the lock off-set and ensure that the Y dimension is 30 mm or less.



# AHC Mortise lock cup handle locks

## AHC

Text

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Rim dead  
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Dead locks  
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Glass door  
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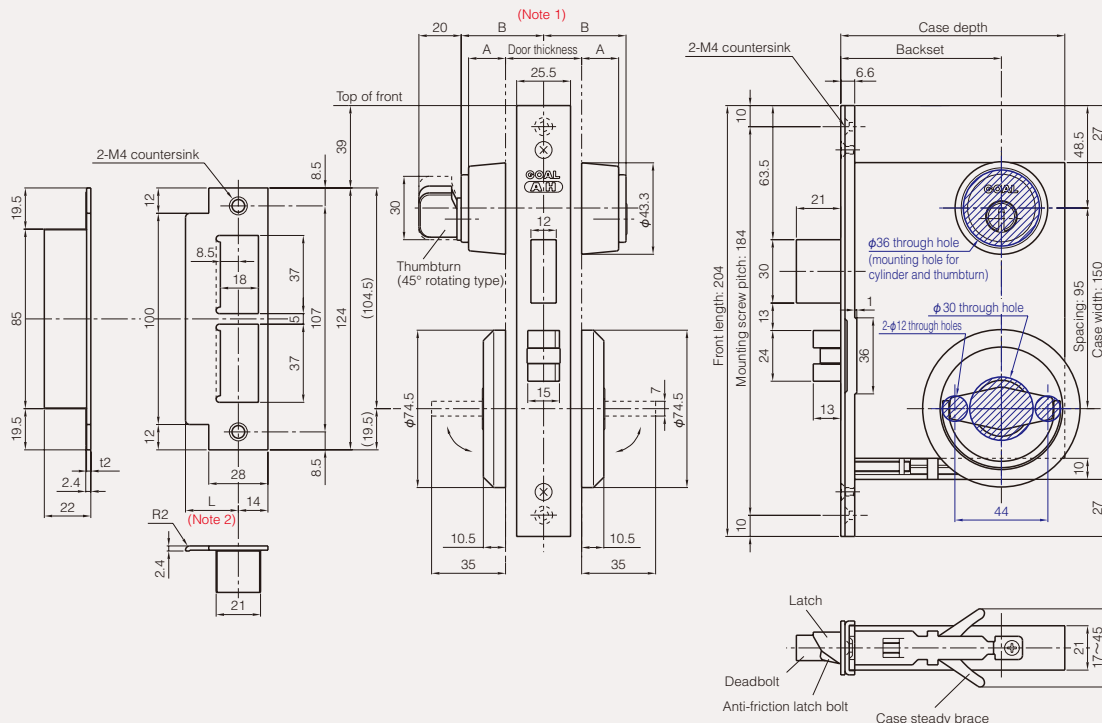
Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z]	1,3,5,6,7	76 mm 100 mm
			35~43 / 43~50 mm

Door thickness: ## mm or more~less than ## mm

**Dimensions/Notch** (Unit: mm) (The model No. 6 notch is the same as No. 5 in the illustration.  
(However create a thumbturn mounting hole (No. 3) or cylinder mounting hole (No. 7) on one side only.)  
For No. 1, create a handle mounting hole only.)

● **V-AHC-5**(backset 76, 100 mm) <Illustration shows a V18 cylinder, cup handles on both sides. >

Backset (mm)	76	100
Case depth (mm)	106	130

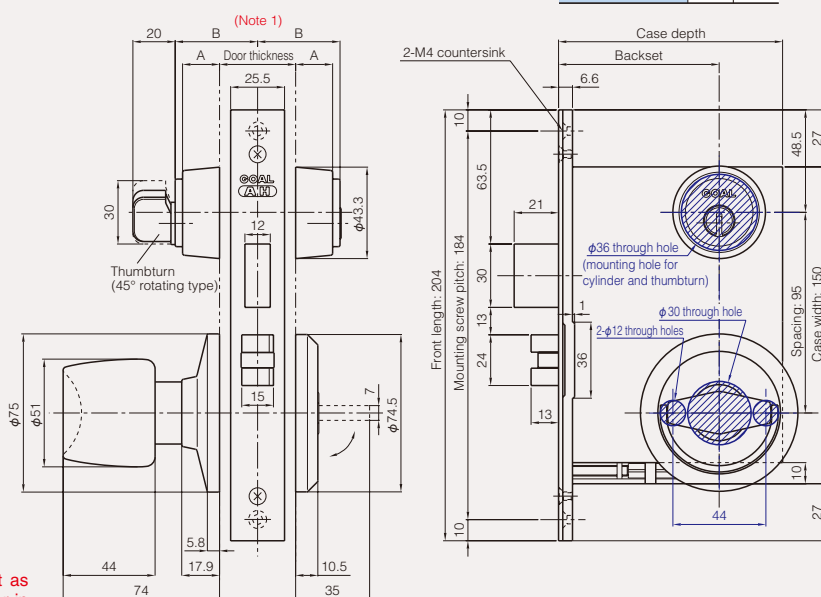


(Note 1)  
**Dimensions A and B for cylinders and thumbturns**

Door thickness (mm)	Dimension (mm)	
	A (Collar height)	B (Cylinder and thumbturn height)
35~50	17.5	39
50~63	17.5	46
63~73	22.5	56
73~83	17.5	56

● **V-AHC-5Q**(backset 76, 100 mm)  
<Illustration shows a V18 cylinder, cup handle on one side, Q type knob on one side. >

Backset (mm)	76	100
Case depth (mm)	106	130



(Note 2)  
**Strike plate lip (L) dimension**

For single leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
35~43	25L	25
43~53	30L	30
For double leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
35~37	18L	18
37~42	20L	20
43~47	23L	23
47~51	25L	25
53	28L	28

\* Indicate the door thickness when ordering.

### Precautions when selecting a strike plate

The strike plate shown in the table above is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount.

Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.



**AXFC, ASC**  
**AXFCL, ASCL**

# Mortise lock cup handle locks

## AXFC, AXFCL, ASC, ASCL

Model	Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
AXFC	GP [GP]	(Note 2) 1, 3, 4, 45 5, 6, 7	64 mm 76 mm	Cup handle on both sides or one side: 33~43 / 43~53 mm
AXFCL	V18 [V]			Cup handles on both sides: 31~33 / 33~38 / 38~43 / 43~48 / 48~53 mm
ASC	GV [GV]			Cup handle on one side: 31~33 / 33~43 / 43~53 mm
ASCL				

### Dimensions/Notch (Unit: mm)

(The model No. 4, 45, 6 notches is the same as No. 5 in the illustration. However create a thumbturn mounting hole (No. 3) or cylinder mounting hole (No. 7) on one side only. For No. 1, create a handle mounting hole only.)

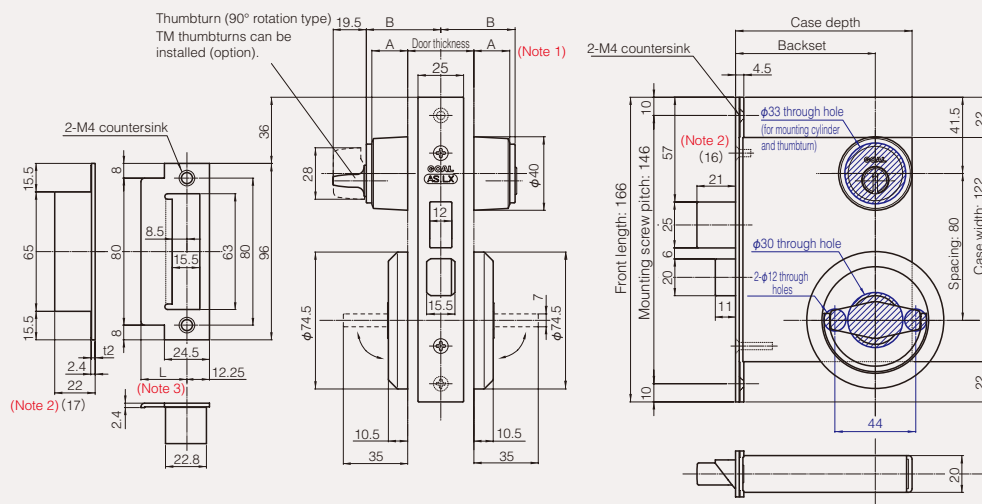
#### ● V-ASC-5(backset 64, 76 mm) <Illustration shows a V18 cylinder, cup handles on both sides.>

\* A cup handle can also be installed on one side (knob on the other side). In this case, the models are V-ASC-5Q and others, and the knob is on the inside.

\* For the AXFC, AXFCL lock body, refer to the dimensions of AXF mortise locks (P.106). The dimensions of the cup handles (AHC cup handles) are the same as ASC, ASCL.

Door thickness: ## mm or more~less than ## mm

Backset (mm)	64	76
Case depth (mm)	84	96



Note 2: For ASC, ASCL-4, 45 partition locks, the deadbolt throw is 16 mm and a strike box with depth 17 mm is set.

(Note 1)

#### Dimensions A and B for cylinders and thumbturns

Door thickness (mm)	Dimension (mm)	
	A (Collar height)	B (Cylinder and thumbturn height)
31~43	19.5	38.5
43~53	14.5	38.5
53~63	19.5	48.5
63~73	14.5	48.5
73~83	19.5	58.5

#### Strike plate lip (L) dimension (Note 3)

For single leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
31~33	20L	20
33~43	25L	25
43~53	30L	30
53~60	33L	33

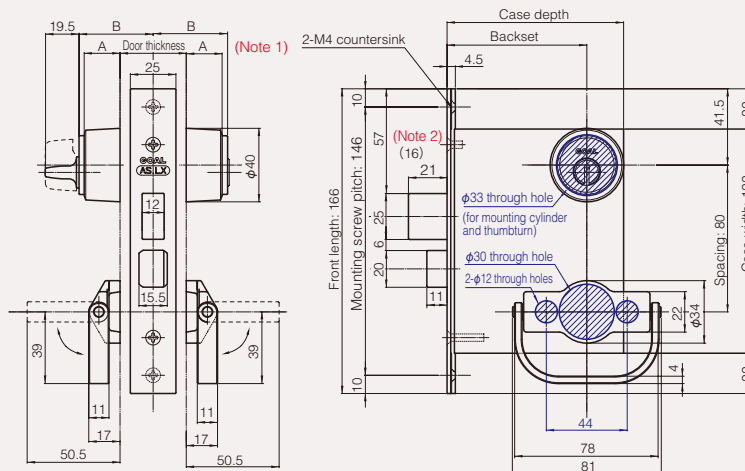
For double leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
31~33	16L	16
33~37	18L	18
37~42	20L	20
43~47	23L	23
47~51	25L	25
53~57	28L	28
57~61	30L	30
63~67	33L	33

#### ⚠ Precautions when selecting a strike plate

The strike plate shown in the table above is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount. Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.

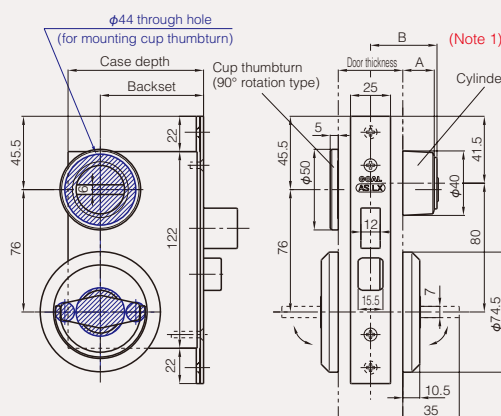
#### ● V-ASCL-5(backset 64, 76 mm)

(The strike plate is the same as the ASC shown above.)



Backset (mm)	64	76
Case depth (mm)	84	96

#### ● ASC-5N (cup thumbturn) (backset 64, 76 mm) (door thickness 38~41 mm)



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Model	Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
<b>HSC, HSTC</b> (Automatic locking type)	GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z]	3,5,6,7 76 mm	33~43 / 43~53 mm (Gap: 6 mm or less)

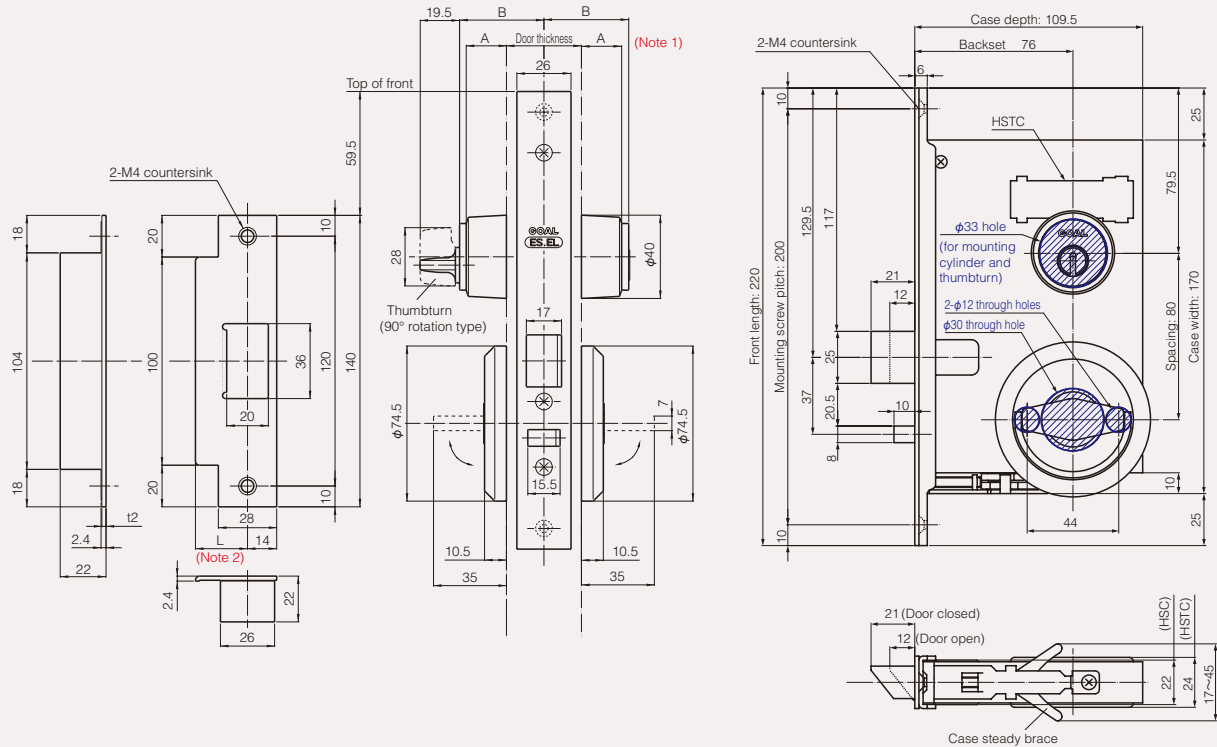
Door thickness: ## mm or more~less than ## mm

■ **Dimensions/Notch** (Unit: mm) (The model No. 6 notch is the same as No. 5 in the illustration.  
However create a thumbturn mounting hole (No. 3) or cylinder mounting hole (No. 7) on one side only.)

● **V-HSC, HSTC-5** <Illustration shows model No. 5, V18 cylinder, cup handles on both sides. >

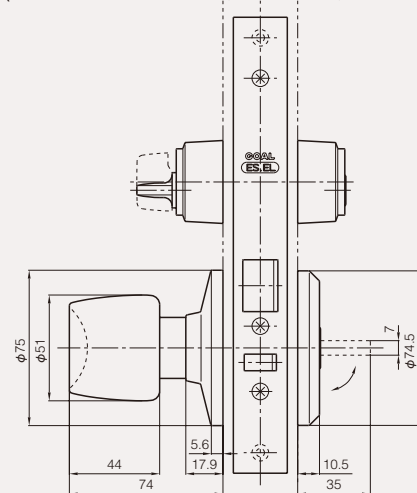
\* The dimensions of HSC and HSTC are the same.

\* A knob can also be installed on one side (door inside). When ordering, specify as, for example, V-HSC-5Q.  
(Refer to illustration below.)



● **V-HSC, HSTC-5Q** <Illustration shows cup handle on one side, Q type knob on one side. >

(\* Dimensions not listed, notch hole, and strike plate are the same as the illustration above. )



(Note 1)

■ **Dimensions A and B for cylinders and thumbturns**

Door thickness (mm)	Dimension (mm)	
	A (Collar height)	B (Cylinder and thumbturn height)
33~43	19.5	38.5
43~53	14.5	38.5
53~63	19.5	48.5
63~73	14.5	48.5
73~83	19.5	58.5

(Note 2)

■ **Strike plate lip (L) dimension**

For single leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
33~43	25L	25
43~53	30L	30
53~60	33L	33

For double leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
33~37	18L	18
37~42	20L	20
43~47	23L	23
47~51	25L	25
53~57	28L	28
57~61	30L	30
63~67	33L	33

▲ **Precautions when selecting a strike plate**

The strike plate shown in the table at left is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount. Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.







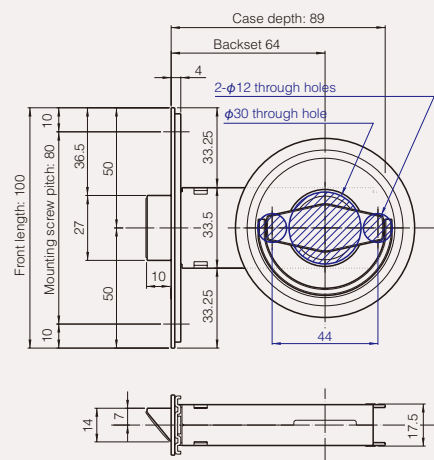
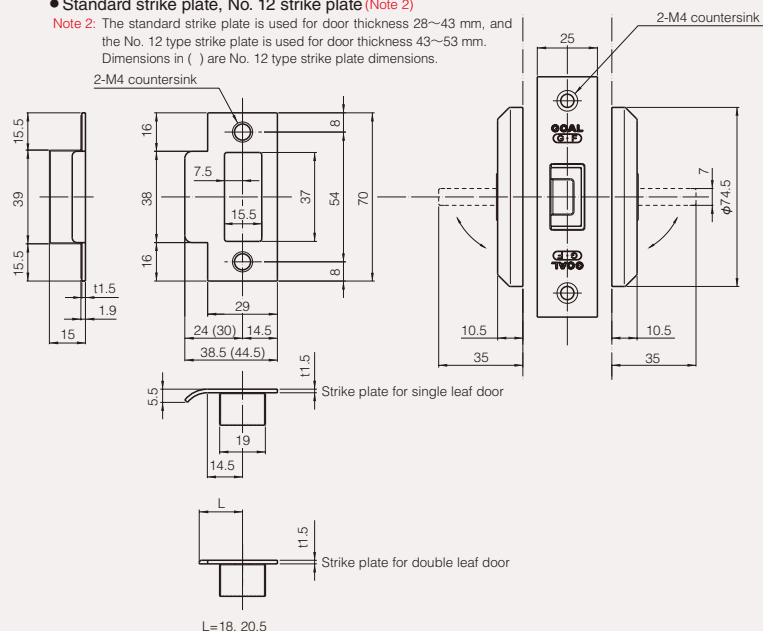
Model No.	Backset	Door thickness (Contact GOAL for more information.)
1	64 mm	Cup handle on both sides: 28~33 / 33~38 / 38~43 / 43~48 / 48~53 mm (Note 2)
(Note 1) 1*, 3*, 7*	100 mm	Cup handle on one side: 28~33 / 33~43 / 43~53 mm (Note 2)

Door thickness: ## mm or more~less than ## mm

● **GC-1** (backset 64 mm) (cup handle on both sides)

- Standard strike plate, No. 12 strike plate (Note 2)

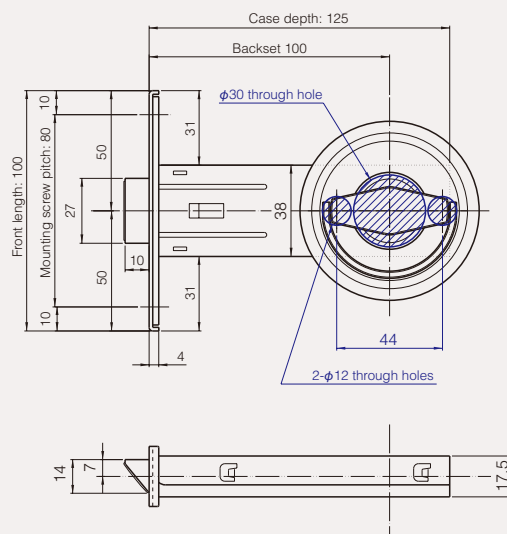
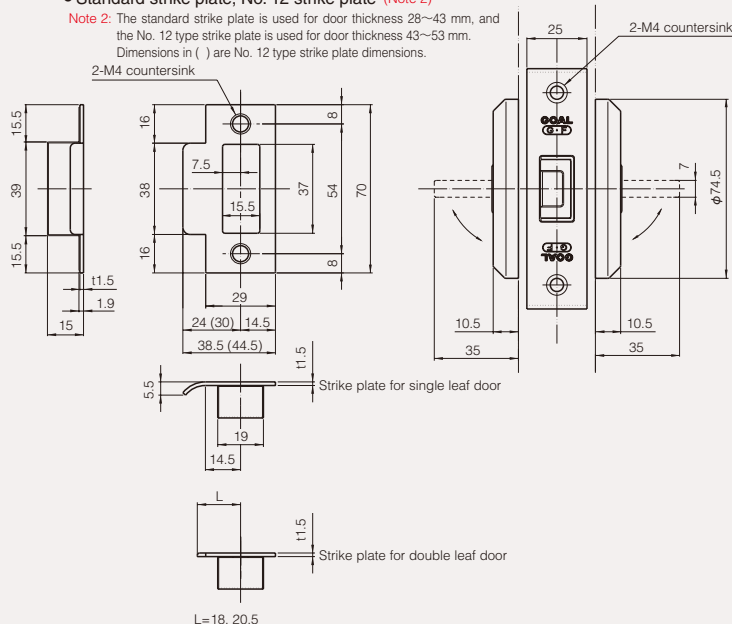
**Note 2:** The standard strike plate is used for door thickness 28~43 mm, and the No. 12 type strike plate is used for door thickness 43~53 mm. Dimensions in ( ) are No. 12 type strike plate dimensions.



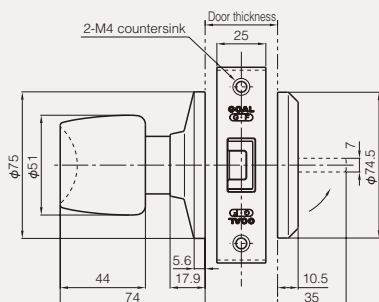
● **GC-1** (backset 100 mm) (cup handle on both sides)

- Standard strike plate, No. 12 strike plate (Note 2)

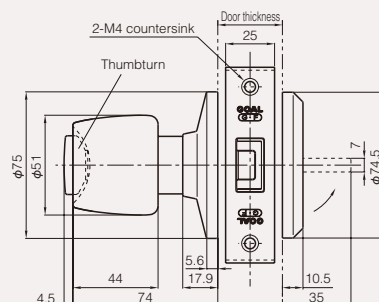
**Note 2:** The standard strike plate is used for door thickness 28~43 mm, and the No. 12 type strike plate is used for door thickness 43~53 mm.  
Dimensions in ( ) are No. 12 type strike plate dimensions.



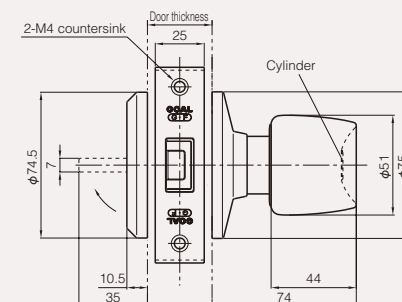
- **GC-1Q** (cup handle on one side)



- **GC-3Q** (cup handle on one side)



- **GC-7Q** (cup handle on one side)





(\* See next page for dimensions of SX, SXS-45 locks with indicators.)

Compatible cylinders	Model No.	Backset	Door thickness	Gap (door and jamb)
GP[GP] V18[V] GV[GV]	6 pins [P] 7 pins [Z]	3,33 5,6,7	SX ... 51 mm SXS ... 51 / 76 mm	(Varies depending on the cylinder and thumbturn model.) (See P. 58 for details.)
				5 mm or less

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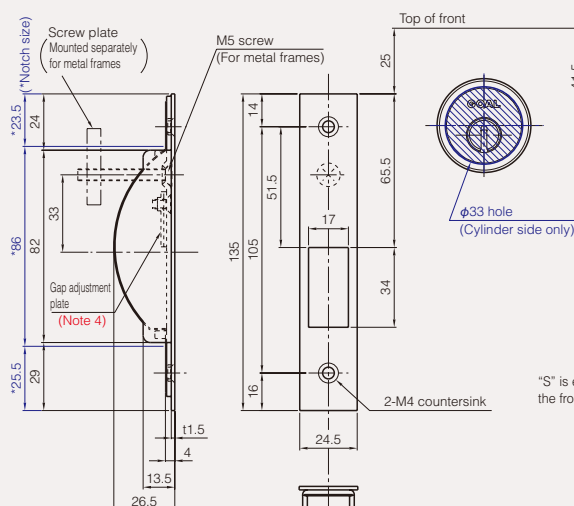
## Dimensions

## ■ Dimensions/Notch (Unit: mm) (Notch dimensions will vary depending on the model and thumbturn model.)

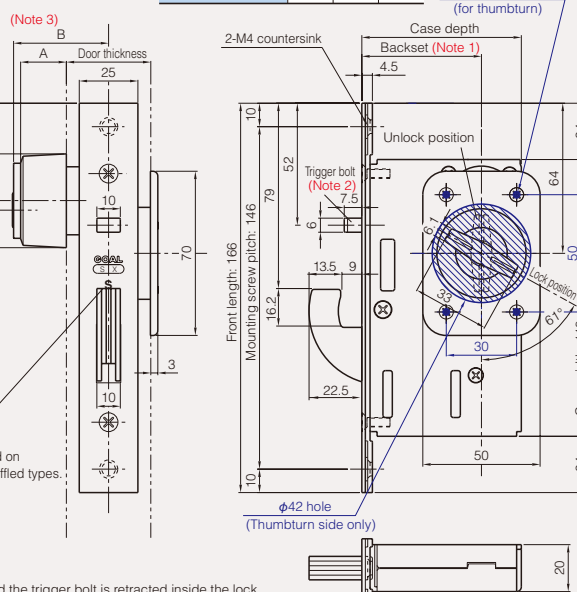
## ● V-SX, SXS-5 (with V18 cylinder and cup (PSS) thumbturn)

Note 1: The backset for muffled-type SXS models is 76 mm.

Dimensions marked with an asterisk (\*) are  
necessary dimensions for vertical adjustment of the strike plate mounting position.



Note 4: Two gap adjustment plates are  
attached to the strike plate.  
See "Using the gap adjustment  
plates" below for how to use the  
plates according to the gap amount.

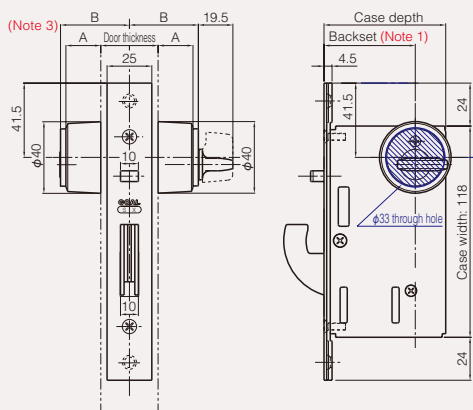


Note 2: When the door closed the trigger bolt is retracted inside the lock case and is extended when the hooked deadbolt is extended. The hooked deadbolt is not extended if no object (strike plate) is present to prevent the trigger bolt from being extended.

## ● V-SX, SXS-5 (with LX thumbturn)

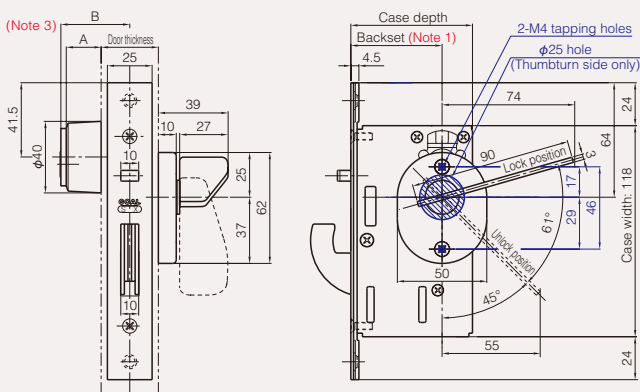
Note 1: The backset for muffled-type SXS models is 76 mm.

(The strike plate is the same as the V-SX-5 shown above.)



## ● V-SX, SXS-5FL (with FL thumbturn)

Note 1: The backset for muffled-type SXS models is 76 mm.



(Note 3)

## ■ Dimensions A, B, C, and D for cylinders, thumbturns, and emergency cylinders

Door thickness (mm)	A: Cylinder, thumbturn, collar height (Collar name)	B: Cylinder, thumbturn, height	C: Emergency cylinder collar height (Collar name)	D: Emergency cylinder height
29~43	19.5 (LX collar)	38.5	14.5 (LX 14 mm collar)	33
43~53	14.5 (LX 14 mm collar)	38.5	14.5 (LX 14 mm collar)	38
53~63	19.5 (LX collar)	48.5	19.5 (LX collar)	43
63~73	14.5 (LX 14 mm collar)	48.5	14.5 (LX 14 mm collar)	48
73~83	19.5 (LX collar)	58.5	19.5 (LX collar)	58

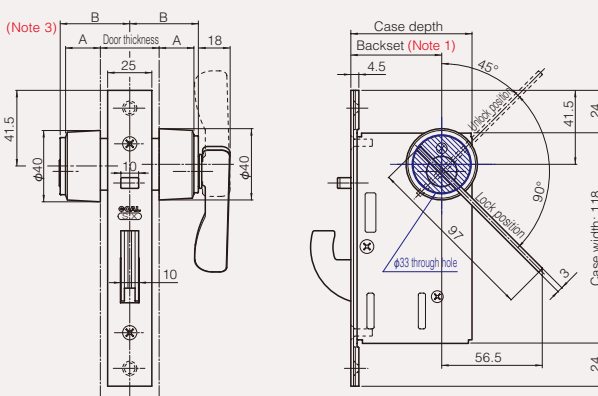
(Note 4)

## ■ Using the gap adjustment plates

Gap (door and jamb)	0~2.5 mm	2.5~3.8 mm	3.8~5 mm
Plates used	Use both adjustment plates.	Remove one adjustment plate.	Remove both adjustment plates.

## ● V-SX, SXS-5FL (No. 2) (with FL No. 2 thumbturn)

Note 1: The backset for muffled-type SXS models is 76 mm.





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**SX-45,  
SXS-45 (muffled type)**

Compatible emergency cylinders	Model No.	Type of thumbturn used	Backset	Door thickness	Gap (door and jamb)
PSS-45 emergency cylinder LX-45 emergency cylinder LX-45VF emergency cylinder	45	Cup (PSS) thumbturn LX thumbturn FL thumbturn FL (No. 2) thumbturn	SX ... 51 mm SXS ... 51 / 76 mm	(Varies depending on the type of emergency cylinder and thumbturn used. See P.58 for details.)	5 mm or less

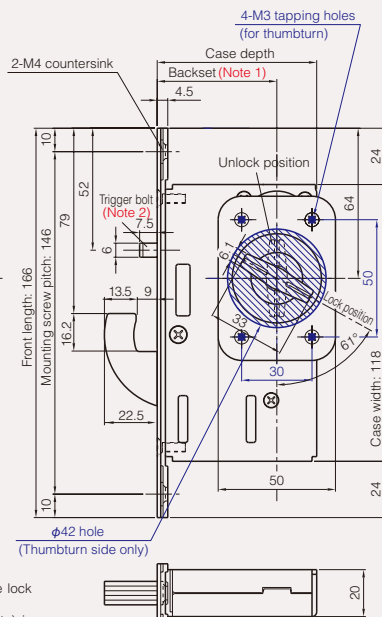
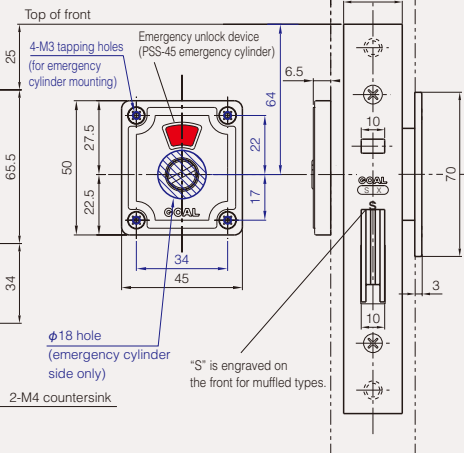
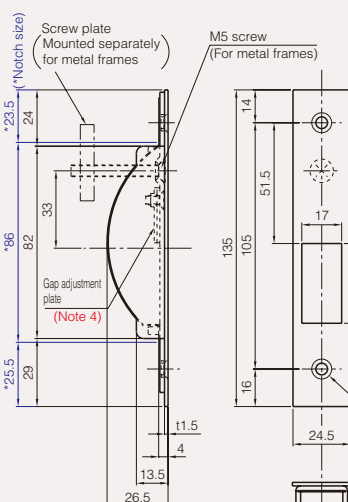
Door thickness: ## mm or more~less than ## mm

**Dimensions/Notch** (Unit: mm) (Be aware that the notch is different depending on the type of emergency unlock device (emergency cylinder) and type of thumbturn used.)

● **SX, SXS-45**(with PSS-45 emergency cylinder and cup thumbturn)

Note 1: The backset for muffled-type SXS models is 76 mm.

Dimensions marked with an asterisk (\*) are necessary dimensions for vertical adjustment of the strike plate mounting position.

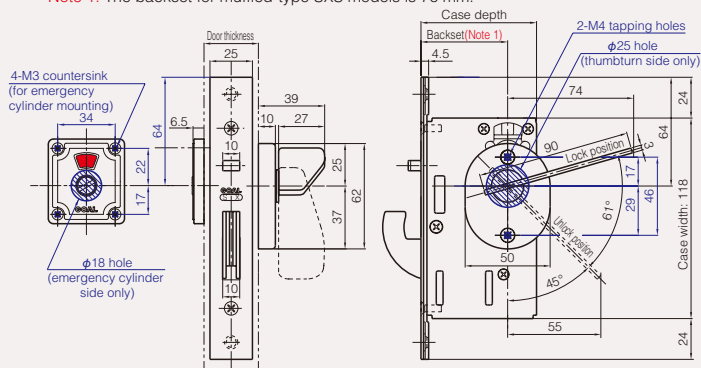


Note 2: When the door is closed, the trigger bolt is retracted inside the lock case and is extended when the hooked deadbolt is extended. The hooked deadbolt is not extended if no object (strike plate) is present to prevent the trigger bolt from being extended.

Note 4: Two gap adjustment plates are attached to the strike plate. See "Using the gap adjustment plates" below for how to use the plates according to the gap amount.

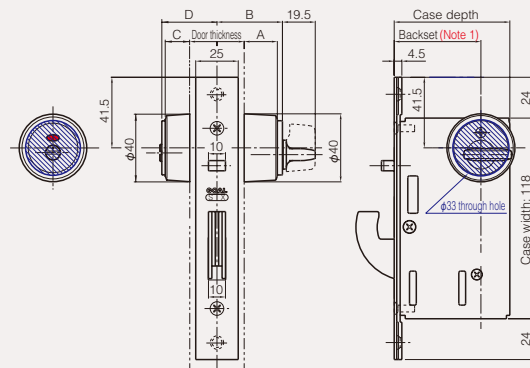
● **SX, SXS-45FL** (with PSS-45 emergency cylinder and FL thumbturn)

Note 1: The backset for muffled-type SXS models is 76 mm.



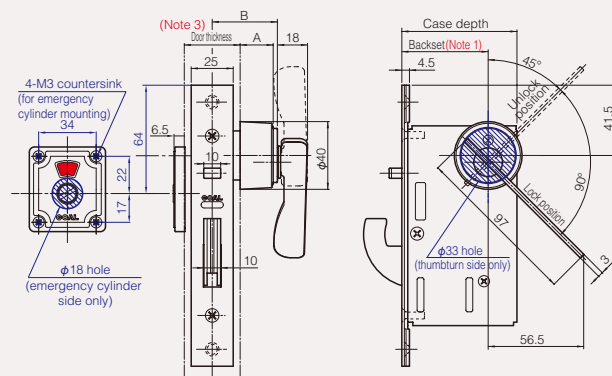
● **SX, SXS-45** (with LX-45 emergency cylinder and LX thumbturn)

Note 1: The backset for muffled-type SXS models is 76 mm.



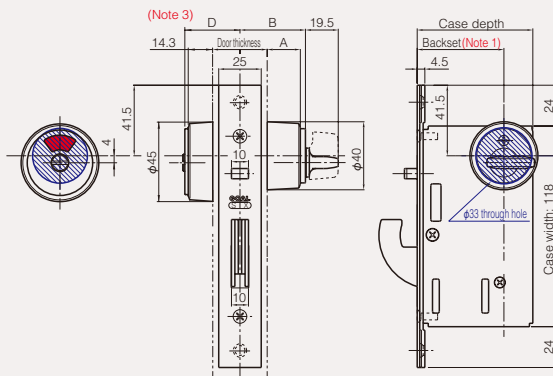
● **SX, SXS-45FL (No.2)** (with PSS-45 emergency cylinder and FL No. 2 thumbturn)

Note 1: The backset for muffled-type SXS models is 76 mm.



● **SX, SXS-45VF** (with LX-45VF emergency cylinder and LX thumbturn)

Note 1: The backset for muffled-type SXS models is 76 mm.



(Note 4)

**Using the gap adjustment plates**

Gap (door and jamb)	0~2.5 mm	2.5~3.8 mm	3.8~5 mm
Plates used	Use both adjustment plates.	Remove one adjustment plate.	Remove both adjustment plates.

Two gap adjustment plates are attached to the strike plate. Use them according to the gap size.

Note 3: For dimensions A, B, C, D in each illustration, refer to P.155.







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## Dimensions

Hooked deadbolt locks  
for sliding doors SN

Model	Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)	Gap (door and jamb)
SAK	GP [GP] 6 pins [P] V18 [V] 7 pins [Z]	3,5,6,7	51 mm	33~43 / 43~53 mm	2.5 mm or less
SN	GV [GV]	3,5,6,7 45	25 mm	29~43 / 43~53 mm 29~43 mm	2 mm or less

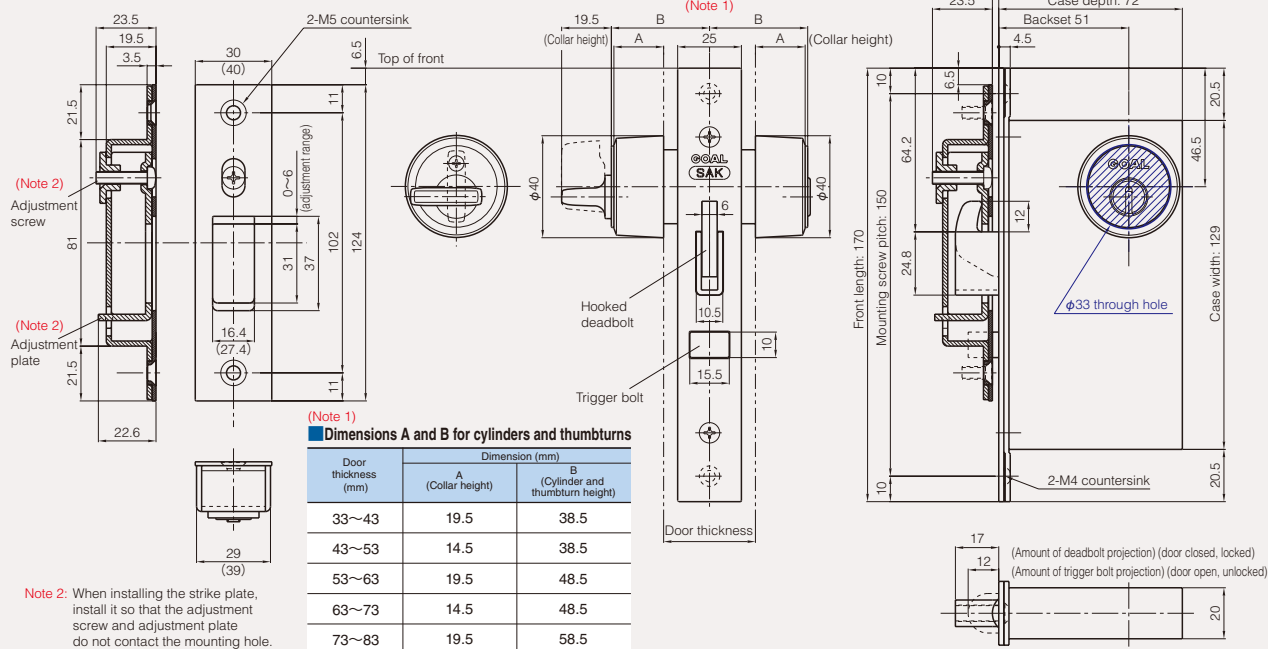
## ■ Dimensions/Notch (Unit: mm)

## ● V-SAK-5 (backset 51 mm)

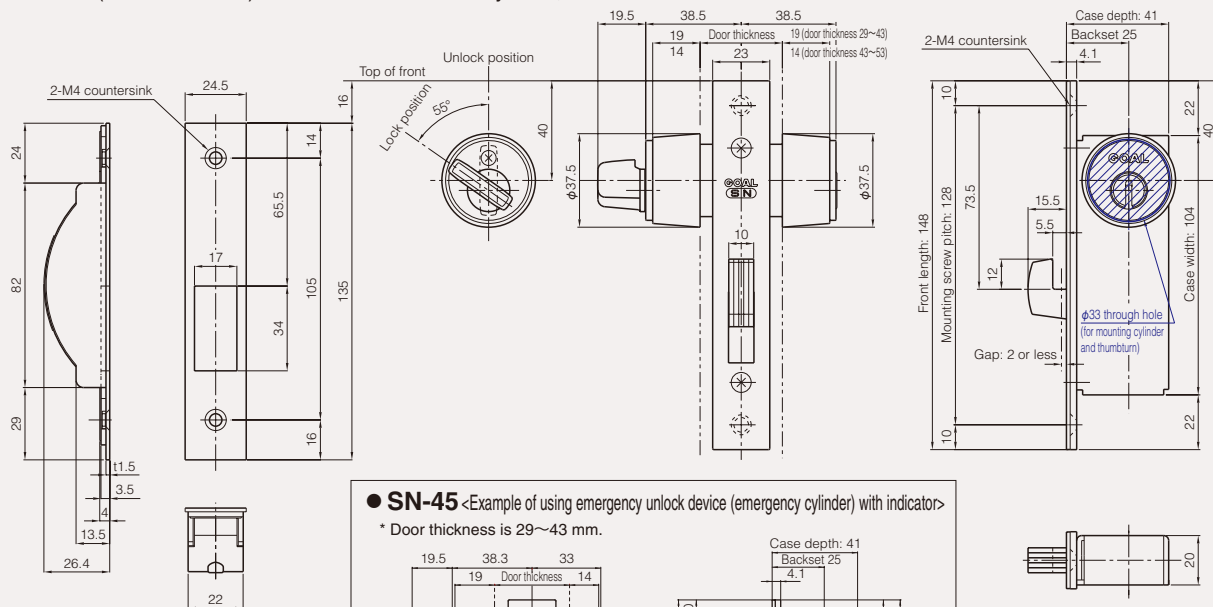
&lt;Illustration shows V18 cylinder, model No. 5. &gt;

## ● Standard strike plate (\* Large No. 1 type strike plate is also available.)

\* Dimensions in ( ) are No. 1 type strike plate dimensions.

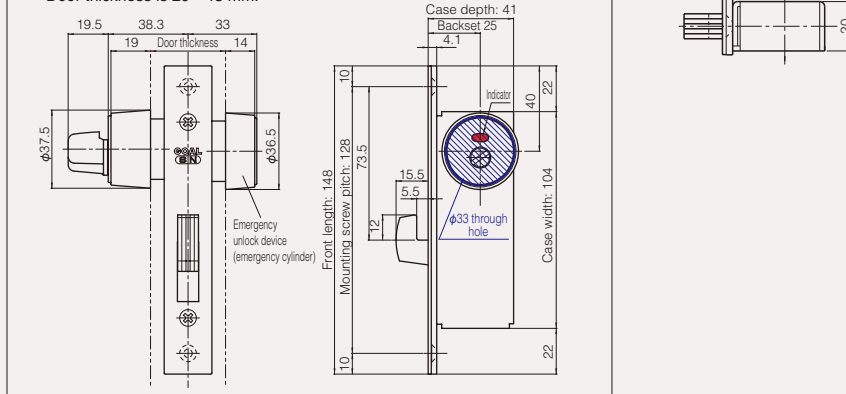


## ● V-SN-5 (backset 25 mm) &lt;Illustration shows V18 cylinder, model SN-5. &gt;



## ● SN-45 &lt;Example of using emergency unlock device (emergency cylinder) with indicator&gt;

\* Door thickness is 29~43 mm.





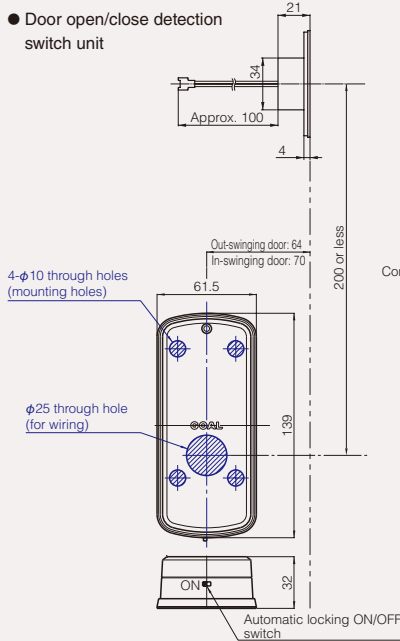
### ■ Dimensions/Notch (Unit: mm)

Door thickness: ## mm or more~less than ## mm

- **BTKLX** (\* Used when using electric thumbturns with mechanical locks. The available mechanical locks include LGK, LG, and LX lever handle locks, LDK and HD dead locks, and others.)  
 <Illustration shows example of using an electric thumbturn on a V-LGK-5NU lever handle lock with V18 cylinder. >

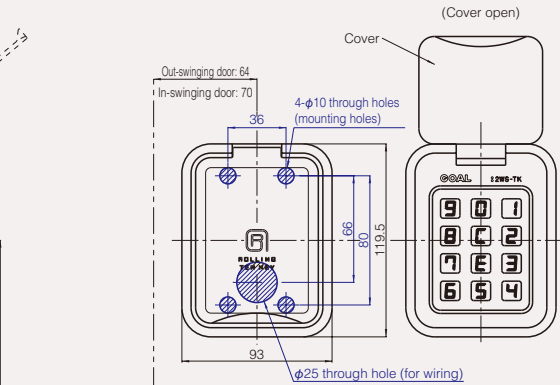
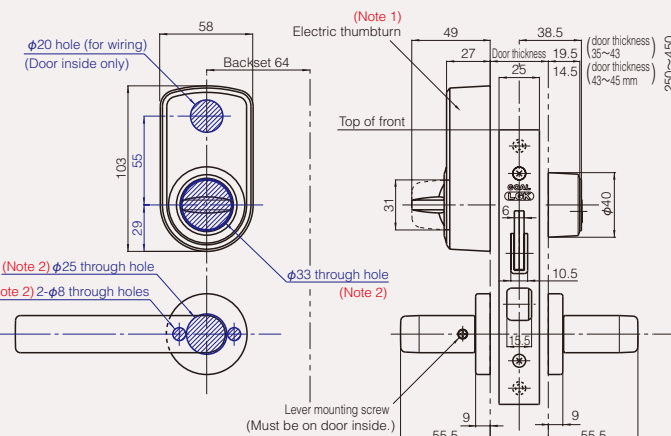
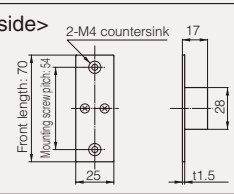
#### ● Door switch DRS <door side>

- Door open/close detection switch unit



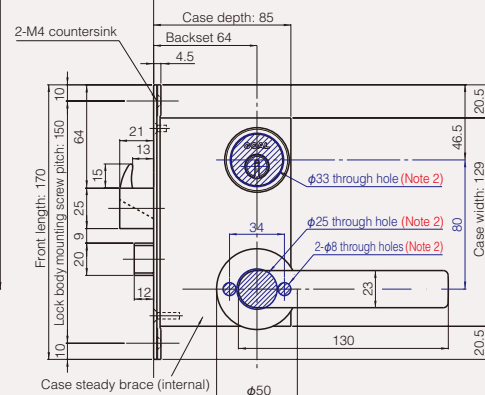
#### ● Door switch DRS <frame side>

- Door open/close detection magnet unit

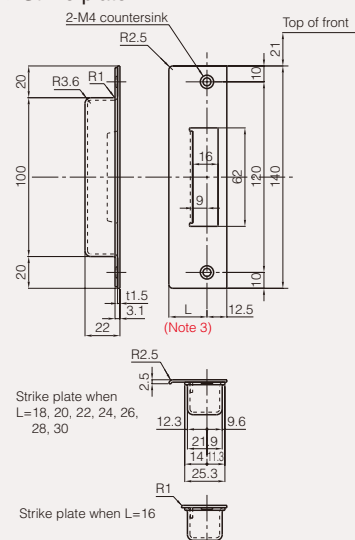


Note 1: Electric thumbturns have handing. Specify R type or L type according to the door hand. (Illustration shows an R type for right-hinged out-swinging doors.)

Note 2: The notch diagram in the illustration shows a case when a lock body which is compatible with an LX cylinder (illustration: LGK lock body) is used. For the lock body notch, refer to the notch diagram of the lock body that is used.



#### ● Strike plate



(Note 3)

#### ■ Strike plate lip (L) dimension

For single leaf door ⚠

Door thickness (minimum~less than) mm	Classification	L dimension (mm)
35~38	24L	24
38~43		
43~48		
48~53	30L	30

For double leaf door

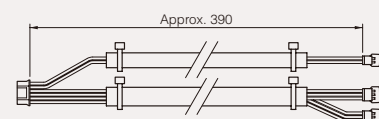
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
35~37	18L	18
37~41	20L	20
41~45	22L	22
45~49	24L	24
49~53	26L	26

\* Indicate the door thickness when ordering.

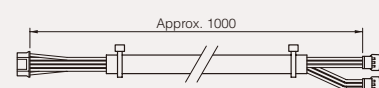
⚠ The strike plate shown in the table at left is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount. Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.

#### ● Special wire harness

- MTH\*1 (electric thumbturn) special wiring harness



- MTH\*1 (electric thumbturn) special wiring harness for two locks





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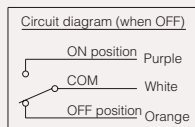
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locksDead locks  
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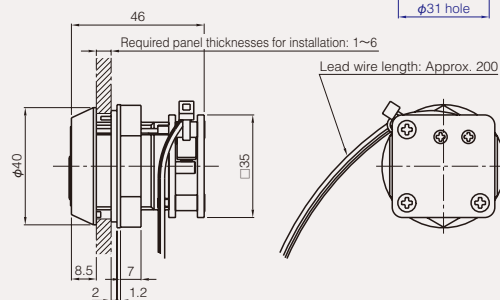
## ■ Dimensions/Notch (Unit: mm)

● Key switches with reverse master system **KS-3R** (for DC power supply)● Key switches **KS-3K, 3F** (for DC power supply) (Note)

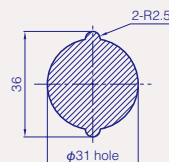
( KS-3K, 3R: GP, V18, GV, 6-pin, 7-pin cylinders can be used.  
KS-3F: Only 6-pin, 7-pin cylinders can be used. )



(Illustration shows P-KS-3K with 6-pin cylinder.)



## &lt;Panel notch hole&gt;



Note: For KS-3K and 3R, the key can only be removed when in the OFF position. For 3R, the key automatically returns to the OFF position after it was turned to the ON position. For 3F, the key can be removed in either the ON or OFF position.











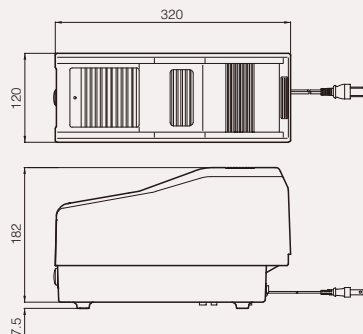
# Optional devices for card locks JCLM, JCLM2 (1/2)

## Card encoders, data input devices, card switches

### ■ Dimensions/Notch (Unit: mm)

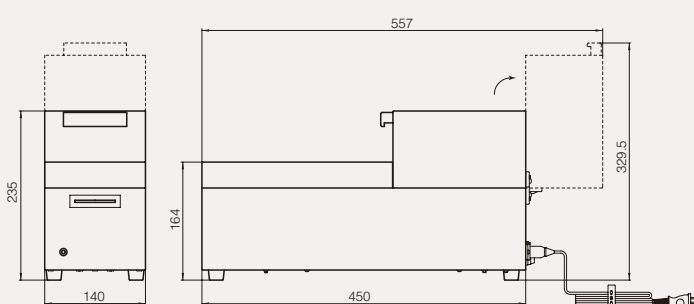
#### Card encoder

- **RW-M-101** (for JCLM, JCLM2)  
(Leuco rewritable MIFARE card reader-writer)



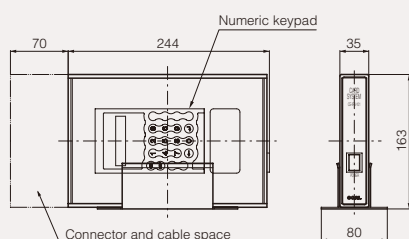
#### Card encoder

- **RW-M-111** (for JCLM, JCLM2)  
(Leuco rewritable MIFARE card reader-writer with dispenser)



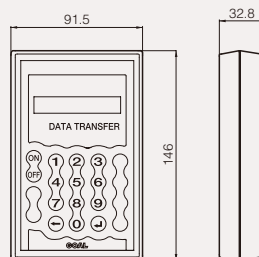
#### Interface unit

- **CE-IFU-202** (for JCLM, JCLM2)  
(card encoder)



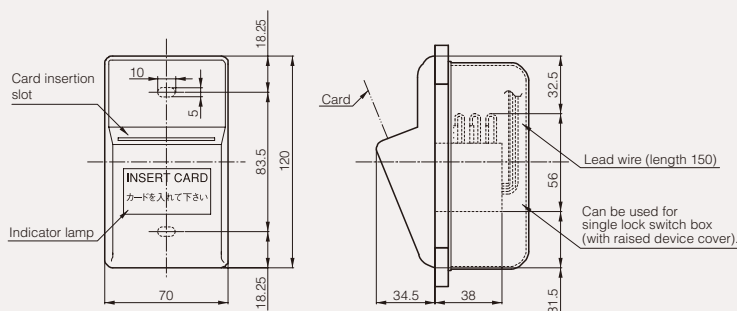
#### Data input device

- **DAT-602** (for JCLM, JCLM2)



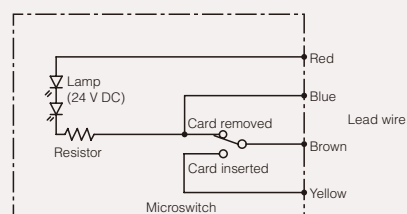
#### Card switch

- **CSW-502** (for JCLM, JCLM2) (\* PRL-710 power relay box is required.)



#### CSW-502 circuit diagram

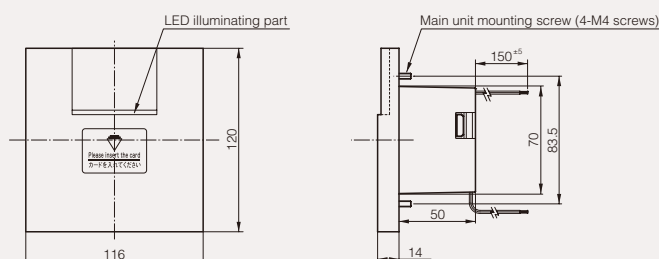
(Illustration shows the conditions when the card is removed.)



When occupied: Brown-yellow short circuit  
When not occupied: Brown-blue short circuit

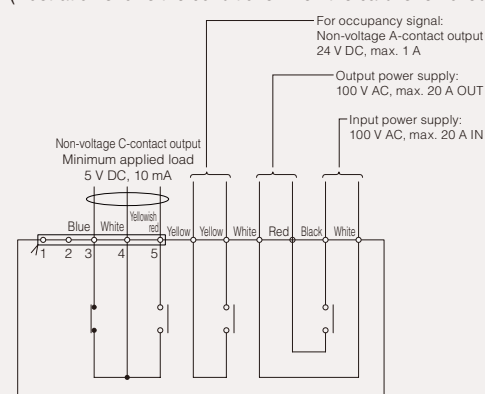
#### Card switch

- **CSW-503** (for JCLM, JCLM2) (\* Power relay box is not required.)  
(\* A non-voltage C-contact wiring connector (option) is also available.)



#### CSW-503 circuit diagram

(Illustration shows the conditions when the card is removed.)



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### Ten-key pads

### Key switches Interlock / emergency door systems

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### Electrical conductors, Control boxes

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# JCLM JCLM2

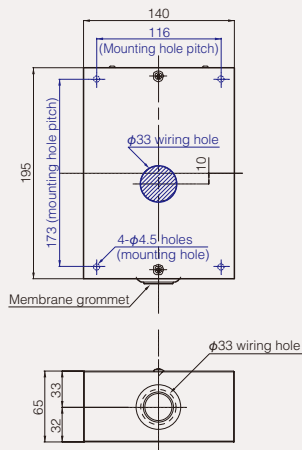
## Optional devices for card locks JCLM, JCLM2 (2/2) Power relay boxes, reverse master card readers, controllers, others

### Dimensions/Notch (Unit: mm)

#### Power relay box

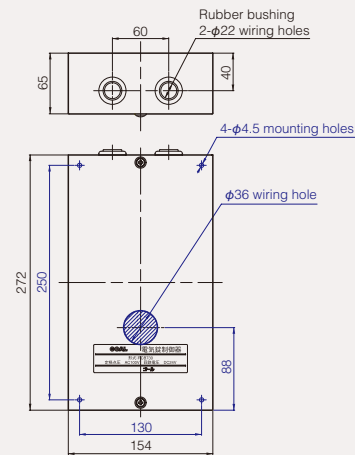
##### ● PRL-710

(\* Used with a CSW-502 card switch. Not required for CSW-503.)



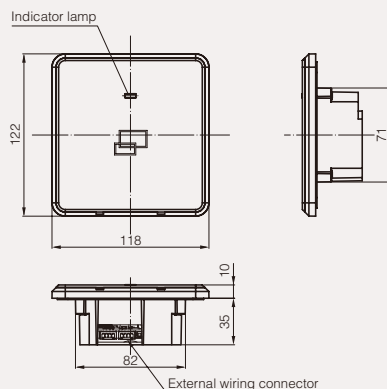
#### Controller

##### ● RCB-730 (\* For electric lock control)



#### Reverse master card reader (\* For control of automatic door or electric lock)

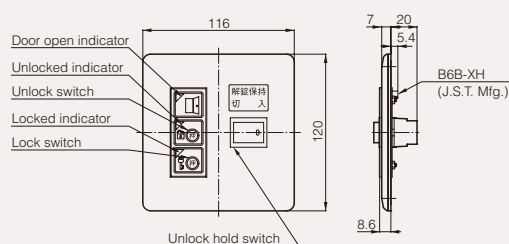
##### ● CLS-JCLM-301-CR (for JCLM, JCLM2)



#### Operation panel (\* For electric lock operation)

##### ● RSP-410UH (with unlock hold function) (for CLS-JCLM-301-CR)

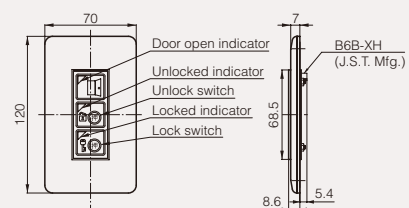
(\* A wiring connector is provided with the product.)



#### Operation panel (\* For electric lock operation)

##### ● RSP-410U (for CLS-JCLM-301-CR)

(\* A wiring connector is provided with the product.)



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# Function-switching electric locks EU series (for both levers and knobs)

**EUT, EUTP** (EUTP is equipped with an anti-panic function.)  
**EUR, EURP** (EURP is equipped with an anti-panic function.)

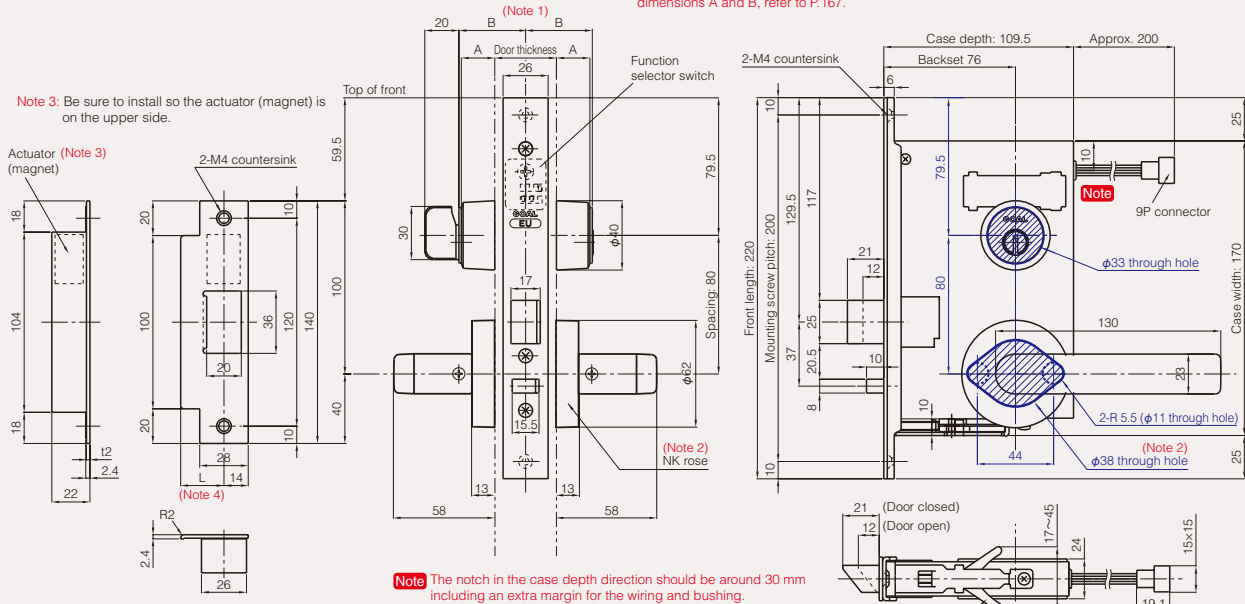
Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)	Gap (door and jamb)
GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z]	3,5,6,7	76 mm Lever handle (NK rose): 29-33 (spacer required) / 33-38 / 38-43 / 43-48 / 48-53 mm Lever handle (EU rose): 29-33 / 33-38 / 38-43 / 43-48 / 48-53 mm (Knob) 29-33 / 33-43 / 43-53 mm	6 mm or less

Door thickness: ## mm or more-less than ## mm

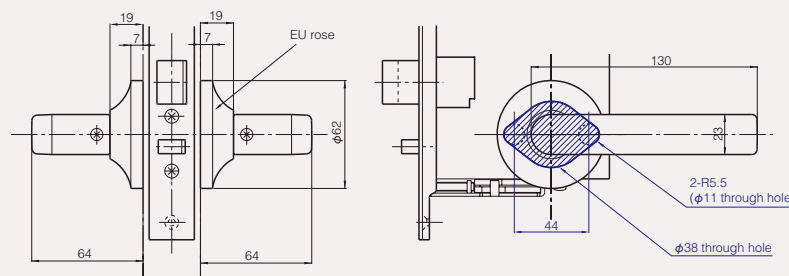
**Dimensions/Notch** (Unit: mm) (The model No. 6 notch is the same as No. 5 in the illustration. However create a thumbturn (mounting hole (No. 3) or cylinder mounting hole (No. 7) on one side only.)

● Lever handle type **V-EUT, EUR-5NU (NK)** <Illustration shows model No. 5, V18 cylinder, **NU** lever handle, **NK** rose.> (backset 76 mm)

Note 1: A: For the relationship between the door thickness and the cylinder, thumbturn, and collar height dimensions A and B, refer to P.167. Note 2: Illustration shows NK rose. An EU rose is also available. (Refer to illustration below.)

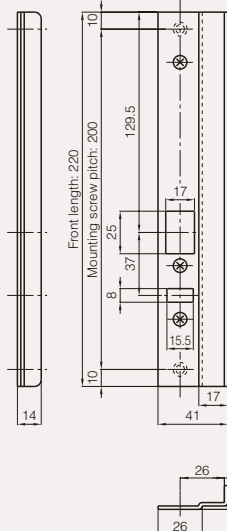


● When a lever handle is used, **EU** rose is also available. (\* The notch hole is the same as that for the NK rose.)



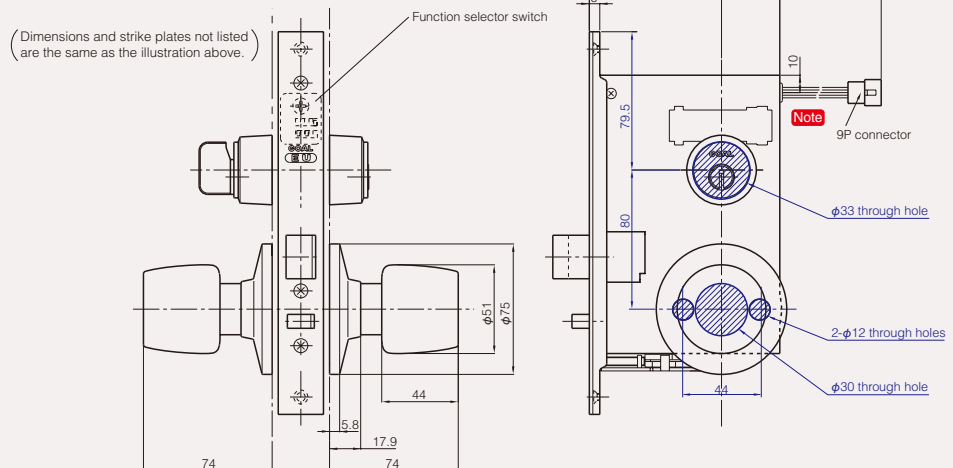
● A front with guard plate (L type front) is also available.

Note 5: The electric lock body includes left- and right-hand types according to the front shape. Illustration shows a right-hand (R) type.



● Knob type **V-EUT, EUR-5Q**

<Illustration shows example of using model No. 5, V18 cylinder, **Q** type knob.> (backset 76 mm)



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### Key switches Interlock / emergency door systems

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### Electrical conductors, Control boxes

## Dimensions







Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z]	3, 5, 6, 7	29-33 / 33-43 / 43-53 mm (gap 6 mm or less)

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locks  
Cylindrical  
locksRim dead  
locksDead locks  
Cremon  
locks  
Glass door  
locksEmergency  
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Cup handle  
locksSliding  
door locks▼ Electric locks  
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padsKey switches  
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locksElectrical  
conductors,  
Control  
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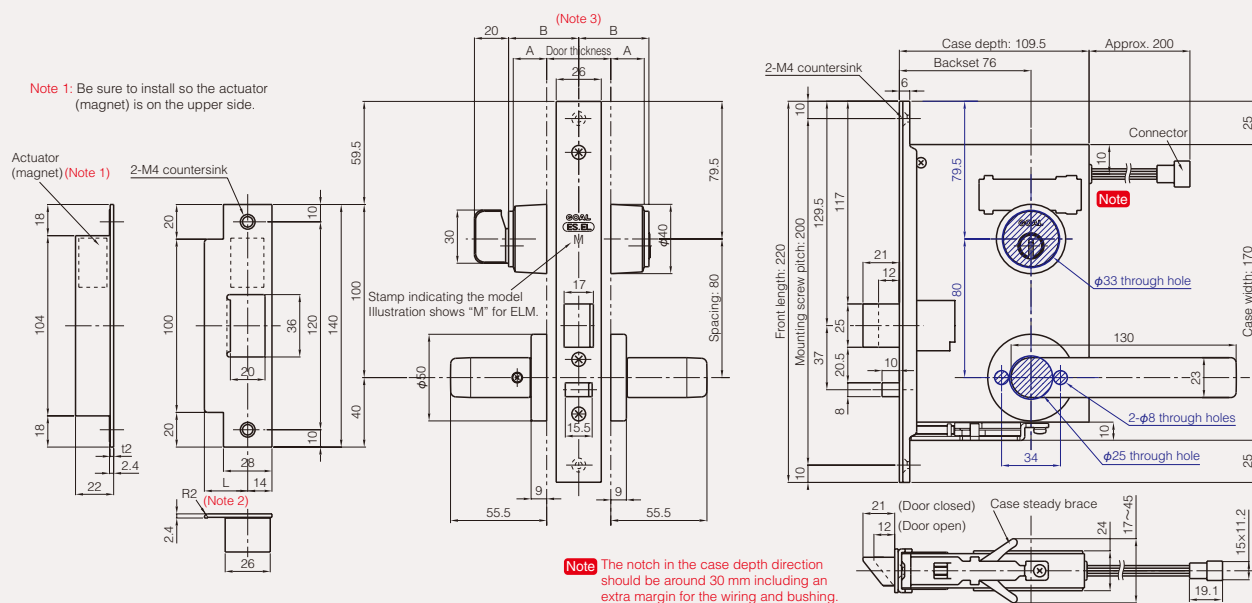
## Dimensions

## ■ Dimensions/Notch (Unit: mm)

(The model No. 6 notch is the same as No. 5 in the illustration. However create a thumbturn (mounting hole (No. 3) or cylinder mounting hole (No. 7) on one side only.)

Door thickness: ## mm or more-less than ## mm

- **V-ELM** <Illustration shows a **V-ELM-5NU** with V18 cylinder, **NU** lever handle.> (The external dimensions and notch dimensions are all the same.)



(Note 2)

## ■ Strike plate lip (L) dimension

For single leaf door ⚠		
Door thickness (minimum-less than) mm	Classification	L dimension (mm)
29-33	20L	20
33-43	25L	25
43-53	30L	30

\* Indicate the door thickness when ordering.

For double leaf door		
Door thickness (minimum-less than) mm	Classification	L dimension (mm)
29-33	16L	16
33-37	18L	18
37-42	20L	20
43-47	23L	23
47-51	25L	25

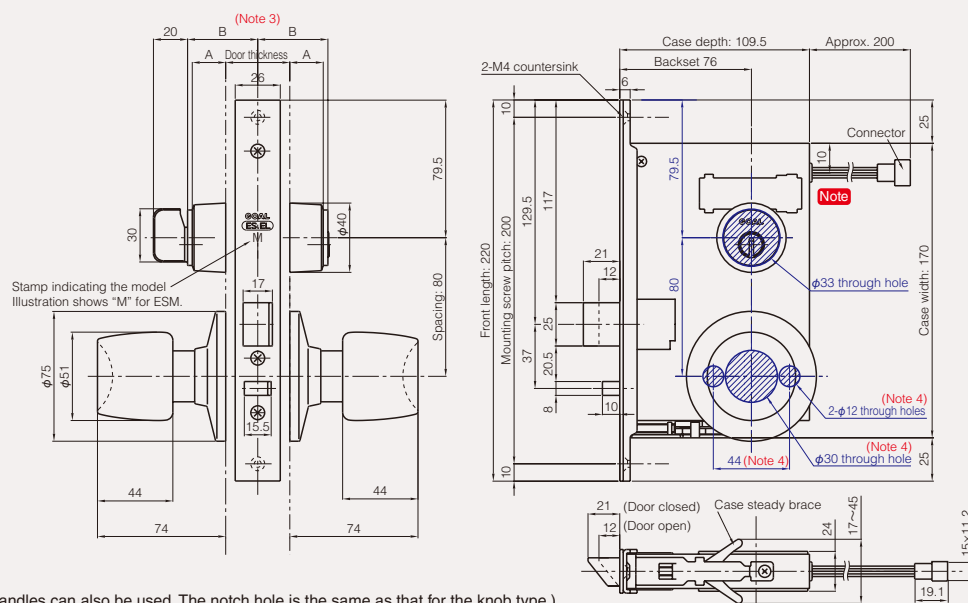
## ⚠ Precautions when selecting a strike plate:

The strike plate shown in the table above is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount.

Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.

- **V-ESM** <Illustration shows a **V-ESM-5Q** with V18 cylinder, **Q** type knob.> (The external dimensions and notch dimensions are all the same.)  
(The strike plate is the same as ELM.)

(Dimensions are the same as the above illustration except for the lever handle and notch hole.)



(Cup handles can also be used. The notch hole is the same as that for the knob type.)



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Rim dead  
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Dead locks  
Cremon  
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Glass door  
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Emergency  
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Sliding  
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Electric  
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Electrical  
conductors,  
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boxes

## Dimensions

Model	Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)	Gap (door and jamb)
EMV	GP[GP] V18[V] GV[GV]	6 pins [P] 7 pins [Z]	3, 5, 6, 7	38, 51 64, 76 mm	29-43 / 43-53 mm
					6 mm or less

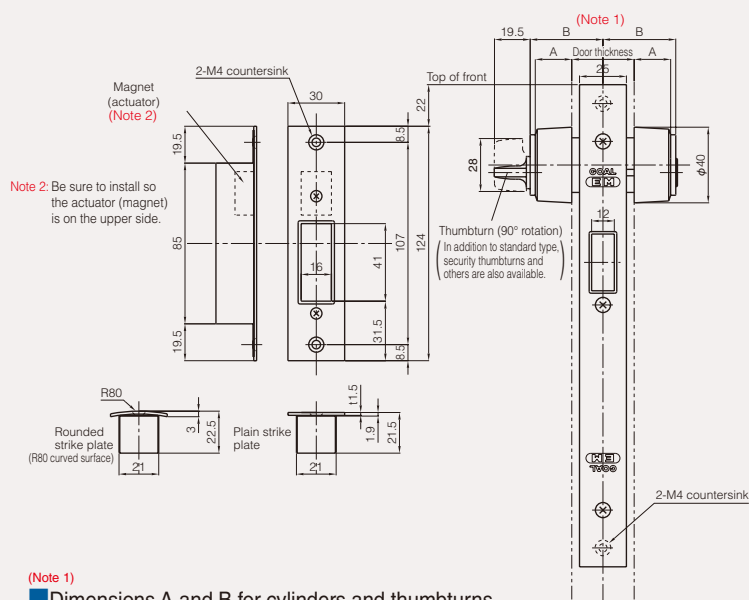
## ■ Dimensions/Notch (Unit: mm)

(The model No. 6 notch is the same as No. 5 in the illustration. However create a thumbturn mounting hole (No. 3) or cylinder mounting hole (No. 7) on one side only.)

## ● V-EMV-5 &lt;Illustration shows a V-EMV-5 with V18 cylinder.&gt;

⚠ **Precautions:** Use under conditions where the side pressure acting on the deadbolt is 49 N or less.

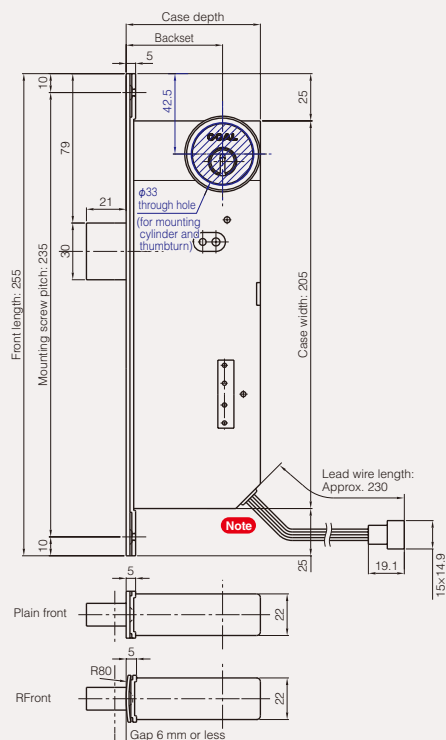
Backset	(mm)	38	51	64	76
Case depth	(mm)	58	71	84	96



(Note 1)

## ■ Dimensions A and B for cylinders and thumbturns

Door thickness (mm)	Dimension (mm)	
	A (Collar height)	B (Cylinder and thumbturn height)
29-43	19.5	38.5
43-53	14.5	38.5
53-63	19.5	48.5
63-73	14.5	48.5
73-83	19.5	58.5



⚠ **Note** The electric lock notch should be around 30 mm including an extra margin for the wiring and bushing.



Compatible cylinders		Model No.	Backset	Door thickness	Gap (door and jamb)
GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z]	5, 6, 7	51 mm	Varies depending on the model and type of cylinder used. For details, refer to the table in the dimensions diagram.	6 mm or less

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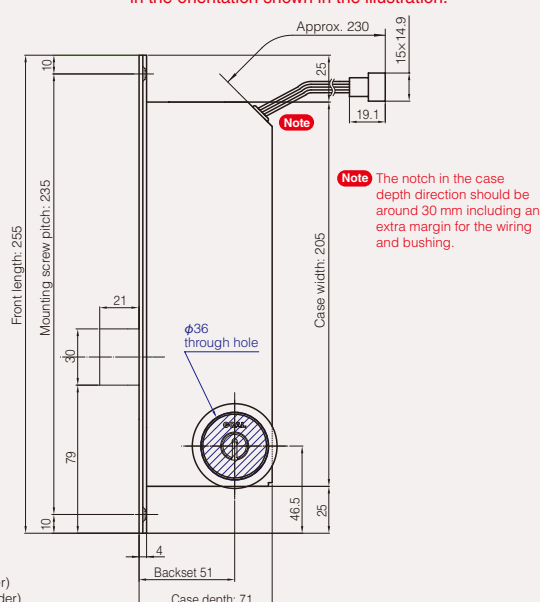
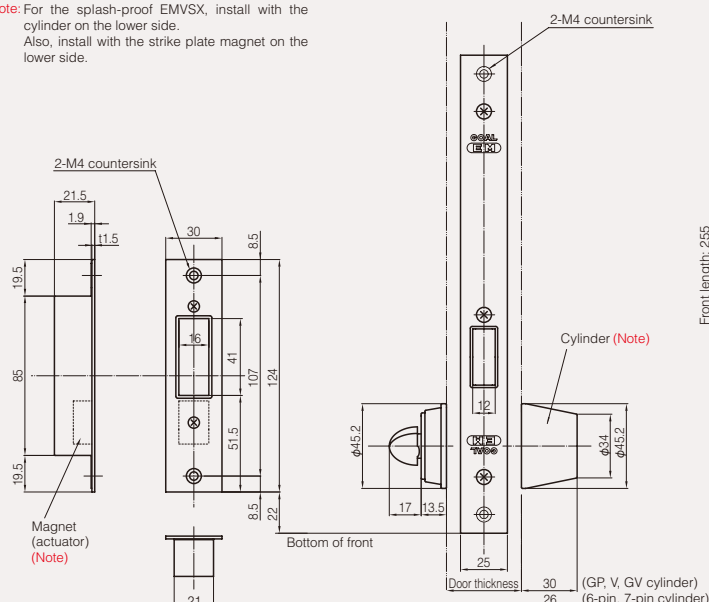
## Dimensions

■ **Dimensions/Notch** (Unit: mm)

Door thickness: ## mm or more~less than ## mm

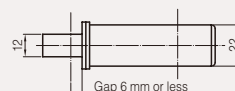
- **V (GP, GV)-EMVSX (splash-proof type)** <Illustration shows model No. 5 with V18 cylinder.> (The notch is the same for model No. 5, 6, 7.)
- **P(Z)-EMVSX**  **Precautions:** Use under conditions where the side pressure acting on the deadbolt is 49 N or less.

**Note:** For the splash-proof EMV SX, install with the cylinder on the lower side.  
Also, install with the strike plate magnet on the lower side.



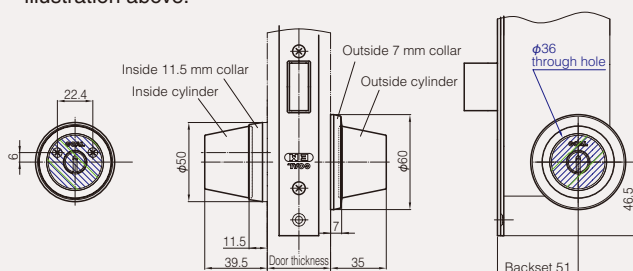
● EMVSX series door thickness according to cylinder type and model

Cylinder type (symbol)	Model	Door thickness (Contact GOAL for more information.)
GP cylinder [GP] V18 cylinder [V] GV cylinder [GV]	GP, V, GV-EMVXS-5, 7	30-43 / 43-53 mm
	GP, V, GV-EMVXS-6	30-40 / 40-50 mm
6-pin cylinder [P]	P, Z-EMVSX-5	30-45 / 45-55 mm
7-pin cylinder [Z]	P, Z-EMVSX-6	37-47 / 47-57 mm
	P, Z-EMVSX-7	30-55 mm



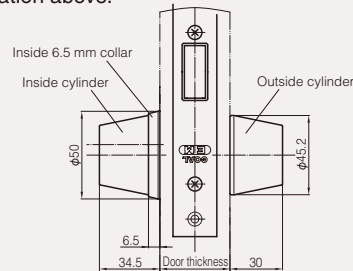
● **V(GP.GV)-EMVSX-6** (Door thickness 30~40 mm)

- \* Dimensions and strike plates not listed are the same as the illustration above.



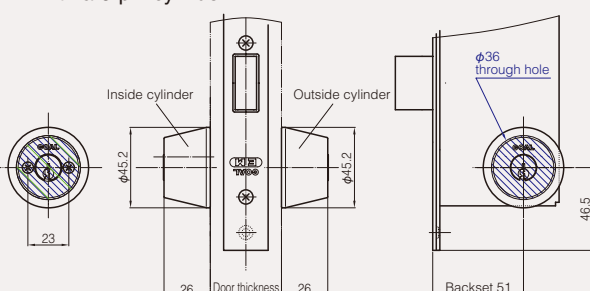
● **V(GP.GV)-EMVSX-6** (Door thickness 40~50 mm)

- \* Dimensions and strike plates not listed are the same as the illustration above.



● **P(Z)-EMVSX-6** (Door thickness 37~47 / 47~57 mm)

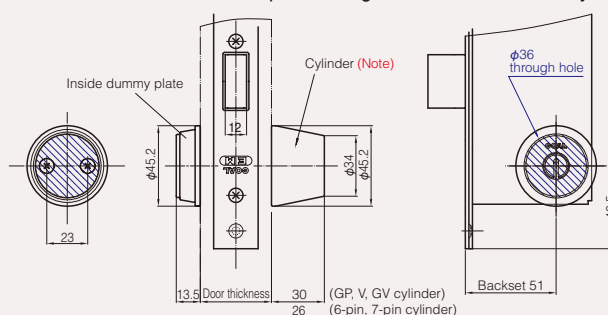
- \* A collar is not required.  
<Illustration shows an example of using model No. 6  
with a 6-pin cylinder.>



● **V(GP.GV)-EMVSX-7** (Door thickness 30~43 / 43~53 mm)

- **P(Z)-EMV SX-7** (Door thickness 30~55 mm)

<Illustration shows example of using model No. 7 with V18 cylinder.>





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Cylindrical  
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Rim dead  
locks

Dead locks  
Cremon  
locks  
Glass door  
locks

Emergency  
locks  
Cup handle  
locks

Sliding  
door locks

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Key switches  
Interlock /  
emergency  
door  
systems

Hotel card  
locks

Electric  
locks

Electrical  
conductors,  
Control  
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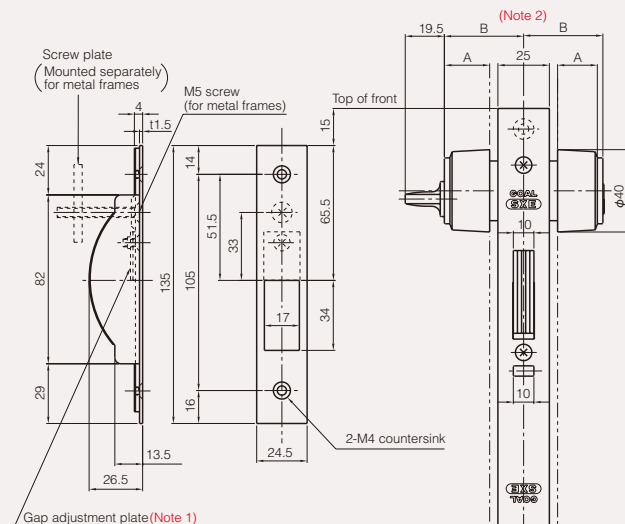
Model	Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information)	Gap (door and jamb)
SXEV	GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z]	3, 5, 6, 7	51 mm	29~43 / 43~53 mm
SXESV			5, 6, 7		Refer to the table in the illustration. (Note 3)

Door thickness: ## mm or more~less than ## mm

■ Dimensions/Notch (Unit: mm)

● **V-SXEV-5** <Illustration shows **V-SXEV-5** with V18 pin cylinder.>

(For **SXEV**, the model No. 6 notch is the same as No. 5 in the illustration. However create a thumbturn mounting hole (No. 3) or cylinder mounting hole (No. 7) on one side only.)



(Note 1)

■ Gap adjustment plate (Use them according to the gap size.)

Gap (door and jamb)	0~2.5 mm	2.5~3.8 mm	3.8~5 mm
Plates used	Use both adjustment plates.	Remove one adjustment plate.	Remove both adjustment plates.

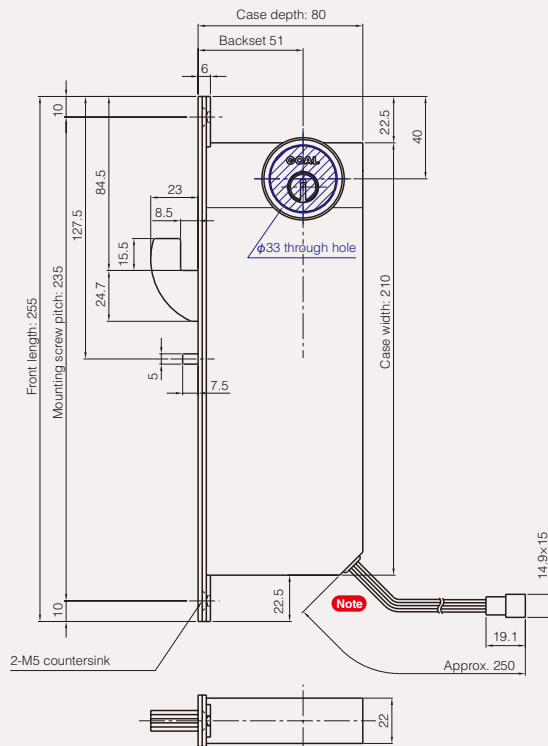
(Note 2)

■ Dimensions A and B for cylinders and thumbturns

Door thickness (mm)	Dimension (mm)	
	A (Collar height)	B (Cylinder and thumbturn height)
29~43	19.5	38.5
43~53	14.5	38.5
53~63	19.5	48.5
63~73	14.5	48.5
73~83	19.5	58.5

⚠ **Precautions:**

Precautions: Use under conditions where the side pressure acting on the deadbolt is 49 N or less.



**Note** The electric lock notch should be around 30 mm including an extra margin for the wiring and bushing.

● **Splash-proof type V-SXESV-5**

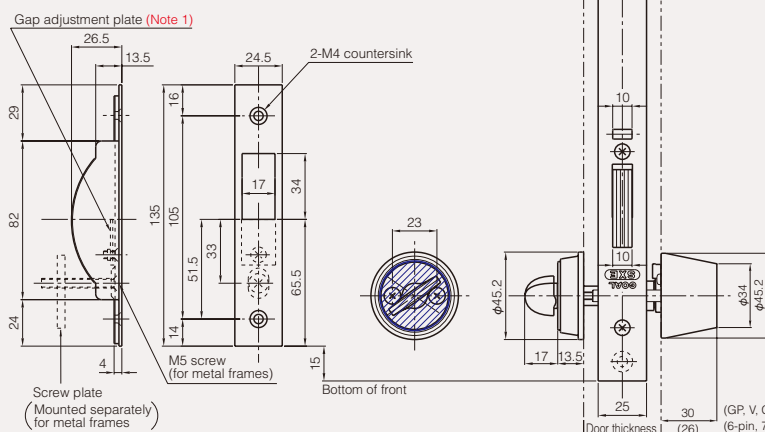
<Illustration shows **V-SXESV-5** with V18 pin cylinder.>

(For **SXESV**, the notch is the same for model No. 5, 6, 7.)

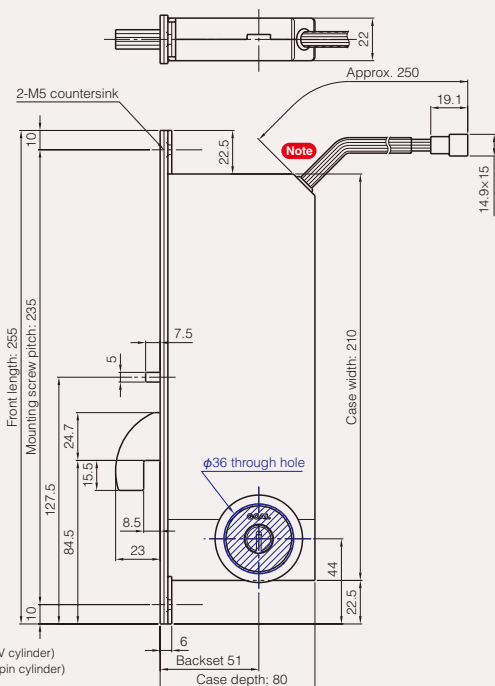
(Note 3)

● **SXESV series door thickness according to cylinder type and model**

Cylinder type (symbol)	Model	Door thickness (Contact GOAL for more information.)
GP [GP] V18 [V] GV [GV]	GP, V, GV-SXESV-5, 7	30~43 / 43~53 mm
	GP, V, GV-SXESV-6	30~40 / 40~50 mm
	P, Z-SXESV-5	30~45 / 45~55 mm
6 pins [P] 7 pins [Z]	P, Z-SXESV-6	37~47 / 47~57 mm
	P, Z-SXESV-7	30~55 mm



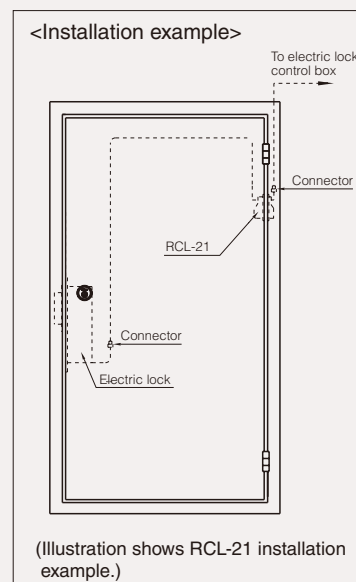
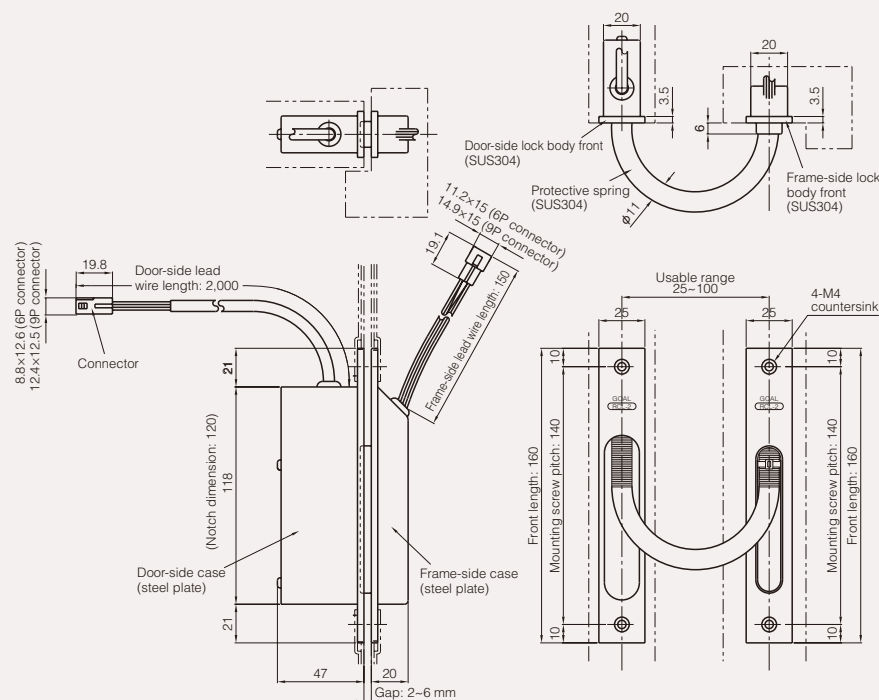
⚠ **Precautions:** Use under conditions where the side pressure acting on the deadbolt is 49 N or less. Because this type is splash-proof, be sure to install it in the orientation shown in the illustration.





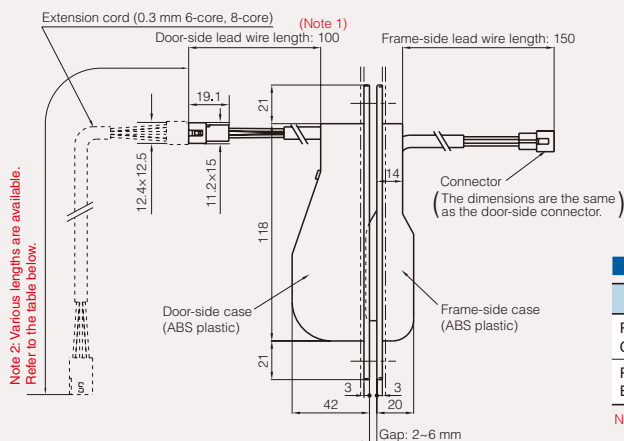
### ■ Dimensions/Notch (Unit: mm)

- Concealed type electrical conductor **RCL-21** (6 lead wires, 6P connector), **27** (7 lead wires, 9P connector)  
(The shape and other dimensions are the same except for the number of lead wires and connector dimensions.)

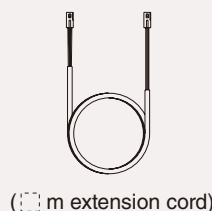


### ● Concealed type electrical conductors **RCL-21U**

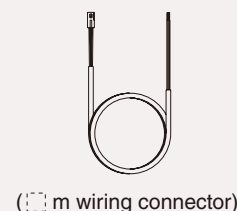
Note 1: Because the door-side cable length is 100 mm, use an extension cord when necessary.



### ● Extension cord (Note 2)



### ● Wiring connector (Note 2)



### ■ RCL-21 series wiring connectors and extension cords

Product	Length	Connector (number of lead wires)
RCL-21(27) Connector (Note 2)	0.5 m, 1 m, 1.5m 2 m, 2.5 m, 3 m	RCL-21: 6P connector on one end (6 wires) RCL-27: 9P connector on one end (7 wires)
RCL-21(27) Extension cord (Note 2)	1 m, 2 m, 3 m 4 m, 5 m, 10 m	RCL-21: 6P connector on both ends (6 wires) RCL-27: 9P connector on both ends (7 wires)

Note 2: Both the RCL-21 and 27 connectors and extension cords can be provided in units of 0.5 m for 5 m or less, or units of 1 m for 5-10 m.

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#### Lever handle locks

#### Mortise locks

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#### Dead locks Cremon locks Glass door locks

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## Dimensions

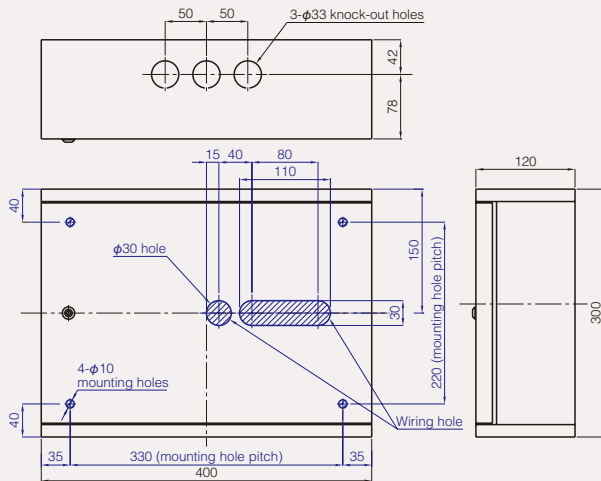
## Electric lock control boxes RCB-500 series

## ■ Dimensions/Notch (Unit: mm)

## ● Control boxes RCB-501~505

(The external dimensions are the same for 1~5 lines.)

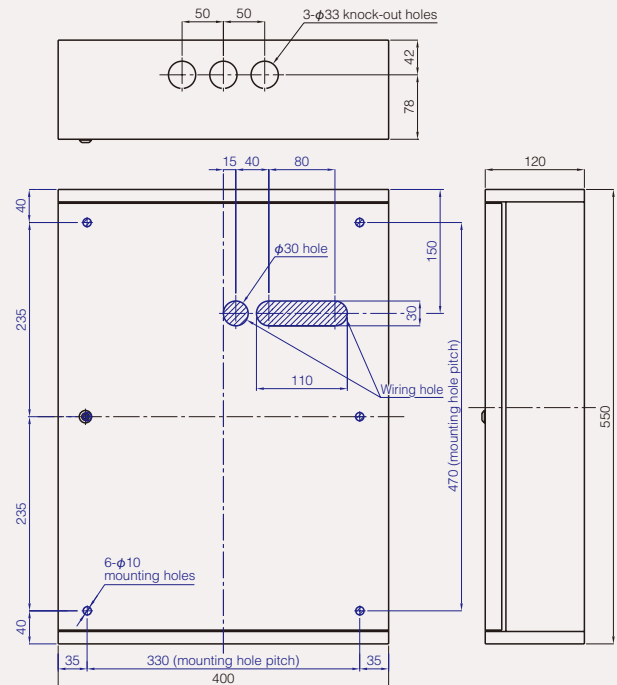
(Note)



Note: Depending on the control box special functions, for example the RCB-503 (3 lines) may have the same dimensions as the RCB-506 (6 lines).

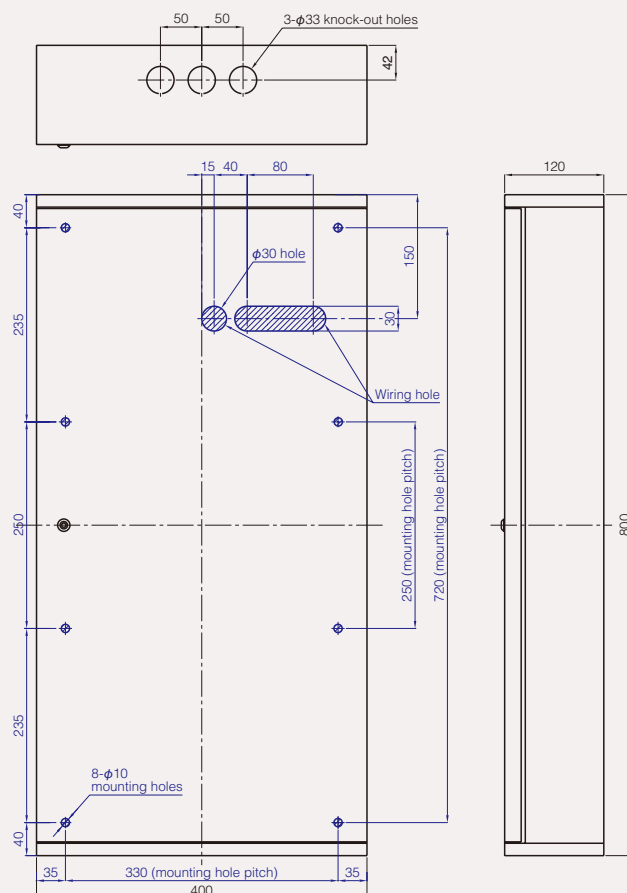
## ● Control boxes RCB-506~510

(The external dimensions are the same for 6~10 lines.)



## ● Control boxes RCB-511~515

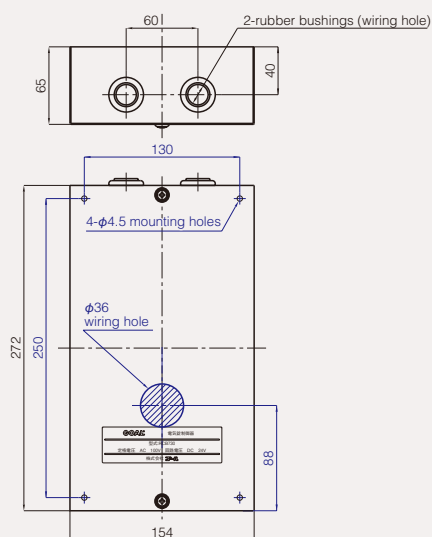
(The external dimensions are the same for 11~15 lines.)





## ■ Dimensions/Notch (Unit: mm)

## ● Controller RCB-730



## ▼ Information

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Integral  
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Cylindrical  
locks

Rim dead  
locks

Dead locks  
Cremon  
locks  
Glass door  
locks

Emergency  
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▼ Electric locks  
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Ten-key  
pads

Key switches  
Interlock /  
emergency  
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systems

Hotel card  
locks

Electric  
locks

Electrical  
conductors,  
Control  
boxes

## Dimensions



Handwriting practice lines consisting of multiple sets of three horizontal dashed lines for tracing and writing practice.







# GUIDE TO **GOAL**<sup>®</sup> LOCKS

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