

LDK Dead locks

LDK series (hooked deadbolts)

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	LDK-3, 5, 6, 7 (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.

HD Dead locks

HD series

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



- **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	HD-3, 33, 4, 45, 45VF, 5, 6, 7	HDFU-7 (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

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 (Note 1) (Contact GOAL for more information.)	25-38 / 38-48 / 48-58 mm	
Cylinder [symbol] (Note 2)	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: Universal Key System not supported)	
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)
---	LDK HD -3 1502/1503	Thumbturn		---
(Emergency cylinder) Emergency unlock device	4 HD -45 45VF	Thumbturn		(Emergency unlock device) (4: No indicator) (45: With indicator) (45VF: With large indicator)
GP (GP cylinder) V (V18 cylinder) GV (GV cylinder)	LDK HD -5 1502/1503	Thumbturn		Cylinder
P (6-pin) Z (7-pin)				

Compatible cylinders and cylinder symbols	Model	(Inside)	Illustration	(Outside)
GP (GP cylinder) V (V18 cylinder) GV (GV cylinder) P (6-pin) Z (7-pin)	LDK HD -6 1502/1503	Cylinder		Cylinder
GP (GP cylinder) V (V18 cylinder) GV (GV cylinder) P (6-pin) Z (7-pin)	LDK HD -7 1502/1503	---		Cylinder
GP (GP cylinder) V (V18 cylinder) P (6-pin) Z (7-pin)	HDFU -7 (seal lock) (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)	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)
—	CGT AHD - 3 LXD	Thumbturn		—
Emergency cylinder (no indicator)	LXD - 4	Thumbturn		Emergency cylinder (emergency unlock device) (no indicator)
Emergency cylinder (with indicator)	LXD - 45 LXD - 45VF (with large indicator for 45VF)	Thumbturn		Emergency cylinder (emergency unlock device) (with indicator)

AHD LXD 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)
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	CGT AHD - 5 LXD	Thumbturn		Cylinder
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	CGT AHD - 6 LXD	Cylinder		Cylinder
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	CGT AHD - 7 LXD	—		Cylinder

* 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	
GP, V, GV-AD-6 30-40 / 40-50 mm		
Key systems	Various key systems available (MK, GMK, GGGMK, 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		Emergency unlock device with indicator (emergency cylinder)
S (SP 5-pin) GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	S-AD-5	Thumbturn		Cylinder
GP (GP)	AD-5			
V (V18)				
GV (GV)				
P (6-pin)				
Z (7-pin)	AD-6	Cylinder		
GP (GP)				
V (V18)				
GV (GV)				
P (6-pin)	AD-7	Cylinder		
Z (7-pin)				
GP (GP)				
V (V18) GV (GV) P (6-pin) Z (7-pin)	AD-7	(Dummy plate)		
GP (GP)				
V (V18)				
GV (GV)				

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, GGGMK, 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.

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-330~45 / 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, GGMM, 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.)



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, GGMM, 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"> • With M8 threaded hole • With M6 threaded hole • No slider head (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.

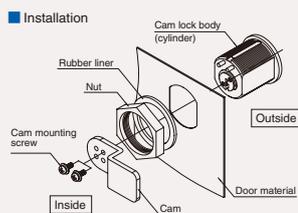
KM

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.)



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



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, GGMM, 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)

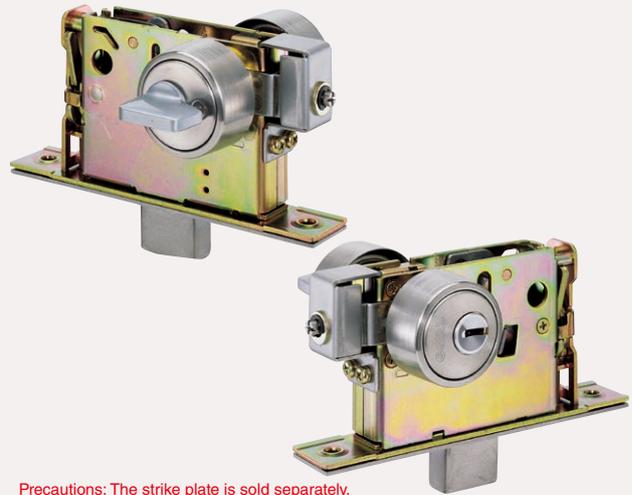
Backset	25 mm
Door thicknesses (Contact GOAL for more information.)	25~38 / 38~48 / 48~58 mm
Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Key systems	Various key systems available (MK, GMK, GGМК, CNK, etc.) (V18, GV: Optional key change system available) (GV: Universal Key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

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

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, GGМК, 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"> • Dull stainless steel (11) (standard specification) • Bright stainless steel (12) • Umber coating (80) • Bright brass (22B)

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

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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.

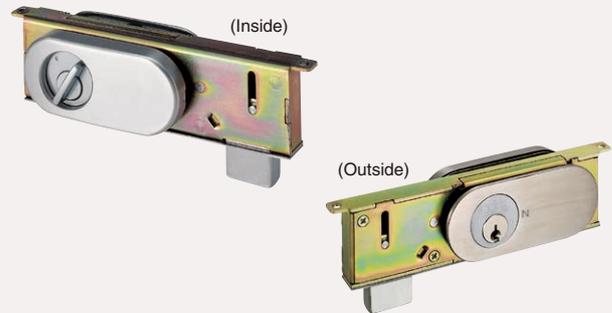
Specifications (Door thickness: ## mm or more-less than ## mm)

Model	CG-3, 5, 6, 7 (no bracket), CG-3, 5, 6, 7 (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.

Applications Glass sliding doors

- **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	BGU-3, 5, 6, 7
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.

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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)



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	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.)
—	SX, SXS-3	Cup thumbturn (PSS thumbturn)	—	33-53 mm (Wooden doors: 36-53 mm)
	SX, SXS-3 (LX thumbturn) -3FL (No.2)	LX thumbturn FL (No. 2) thumbturn	—	29-43 / 43-53 mm (Same for wooden doors)
	SX, SXS-3FL	FL thumbturn	—	29-35 / 35-41 / 41-47 / 47-53 mm (Wooden doors: 36-53 mm)
(PSS-45 Emergency cylinder)	SX, SXS-45	Cup thumbturn (PSS thumbturn)	—	33-35 / 35-41 / 41-47 / 47-53 mm (Wooden doors: 36-41 / 41-47 / 47-53 mm)
	SX, SXS-45 (LX thumbturn) -45FL (No.2)	LX thumbturn FL (No. 2) thumbturn	PSS-45 emergency cylinder	33-43 / 43-53 mm (Wooden doors: 36-43 / 43-53 mm)
	SX, SXS-45FL	FL thumbturn	—	29-35 / 35-41 / 41-47 / 47-53 mm (Wooden doors: 36-41 / 41-47 / 47-53 mm)
(LX-45 Emergency cylinder)	SX, SXS-45	Cup thumbturn (PSS thumbturn)	—	33-43 / 43-53 mm (Wooden doors: 36-43 / 43-53 mm)
	SX, SXS-45 (LX thumbturn) -45FL (No.2) (LX emergency cylinder)	LX thumbturn FL (No. 2) thumbturn	LX-45 emergency cylinder	29-43 / 43-53 mm (Same for wooden doors)
	SX, SXS-45FL (LX emergency cylinder)	FL thumbturn	—	29-43 / 43-53 mm (Wooden doors: 36-43 / 43-53 mm)
GP, V, GV, P, Z	SX, SXS-5	Cup thumbturn (PSS thumbturn)	—	33-43 / 43-53 mm (Wooden doors: 36-43 / 43-53 mm)
	SX, SXS-5 (LX thumbturn) -5FL (No.2)	LX thumbturn FL (No. 2) thumbturn	Cylinder (GP, V, GV, P, Z)	29-43 / 43-53 mm (Same for wooden doors)
	SX, SXS-5FL	FL thumbturn	—	29-43 / 43-53 mm (Wooden doors: 36-43 / 43-53 mm)
GP, V, GV, P, Z	SX, SXS-6	(Cylinder on inside also)	Cylinder (GP, V, GV, P, Z)	29-43 / 43-53 mm (Same for wooden doors)
GP, V, GV, P, Z	SX, SXS-7	—	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.

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.)
—	PSS-3	Cup thumbturn (PSS thumbturn)	—	33-58 mm (Same for wooden doors)
	PSS-3 (PSD thumbturn)	PSD thumbturn	—	25-38 / 38-48 / 48-58 mm (Same for wooden doors) (Note 1)
	PSS-3FL	FL thumbturn	—	29-53 mm (Wooden doors: 33-53 mm)
(PSS-45 Emergency cylinder)	PSS-45	Cup thumbturn (PSS thumbturn)	—	33-35 / 35-41 / 41-47 / 47-53 mm (Same for wooden doors)
	PSS-45 (PSD thumbturn)	PSD thumbturn	PSS-45 emergency cylinder	29-38 / 38-48 / 48-58 mm (Wooden doors: 31-38 / 38-48 / 48-53 mm)
	PSS-45FL	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	PSS-5	Cup thumbturn (PSS thumbturn)	—	33-38 / 38-48 / 48-58 mm (Same for wooden doors)
	PSS-5 (PSD thumbturn)	PSD thumbturn	Cylinder (GP, V, GV, P, Z)	25-38 / 38-48 / 48-58 mm (Same for wooden doors) (Note 1)
GP, V, GV, P, Z	PSS-5FL	FL thumbturn	—	29-38 / 38-48 / 48-53 mm (Wooden doors: 33-38 / 38-48 / 48-53 mm)
GP, V, GV, P, Z	PSS-6	(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	PSS-7	—	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)
—	SAK SN -3	Thumbturn		—
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	SAK SN -5	Thumbturn		Cylinder

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 SN-45 ... 29-43 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)
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	SAK SN -6	Cylinders		Cylinder
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	SAK SN -7	—		Cylinder

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Model	Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
CGT	GP [GP] V18 [V]	6 pins [P] 7 pins [Z]	51 mm	35-38 / 38-45 / 45-55 / 55-65 / 65-75 mm (* 40 mm or more for wooden doors)
AHD	GP [GP] GV [GV]	3, 5, 6, 7	76, 100 mm	35-50 mm

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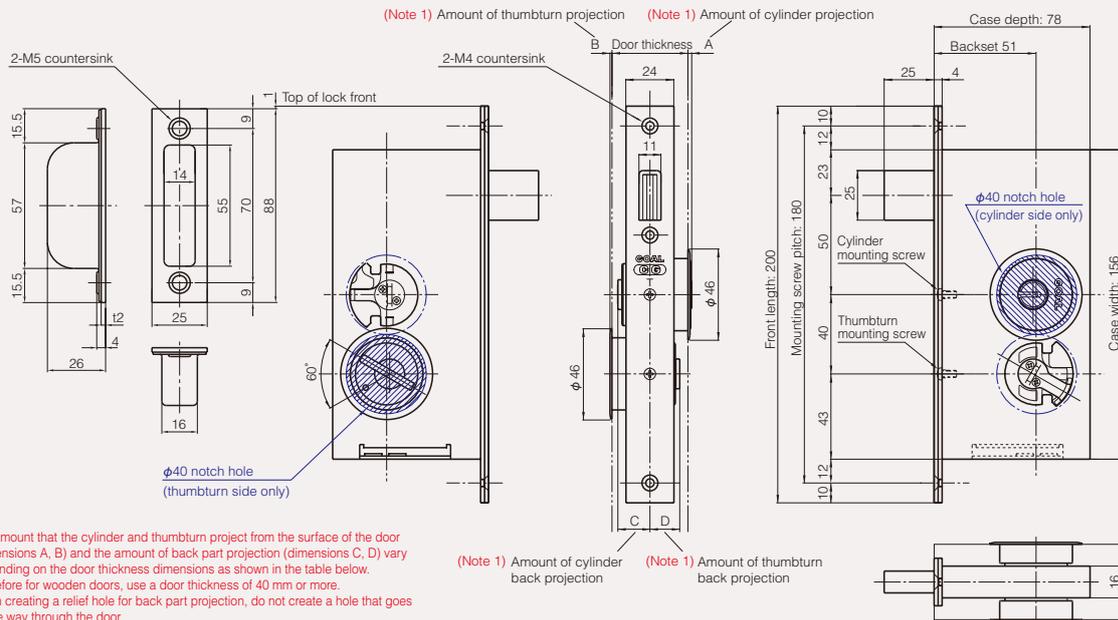
Dimensions

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-CGT-5 (backset 51 mm) <Illustration shows a V18 cylinder with backset 51 mm.>



Note 1: The amount that the cylinder and thumbturn project from the surface of the door (dimensions A, B) and the amount of back part projection (dimensions C, D) vary depending on the door thickness dimensions as shown in the table below. Therefore for wooden doors, use a door thickness of 40 mm or more. When creating a relief hole for back part projection, do not create a hole that goes all the way through the door.

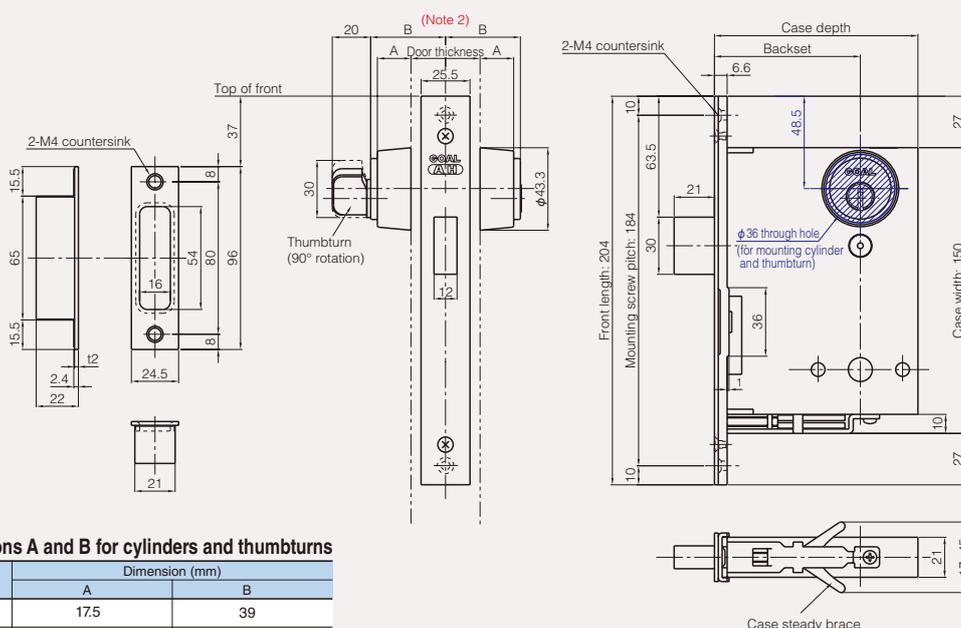
CGT: Amounts of cylinder and thumbturn projection A, B, C, D according to door thickness and cylinder type

Door thickness (mm)	35-Less than 38			38-Less than 45						45-Less than 55	55-Less than 65	65-Less than 75	
	35	36	37	38	39	40	41	42	43	44			
Amount of cylinder projection A (mm)	4.0	3.5	3.0	1.0						1.0			
GP, V, Z cylinder	4.5	4.0	3.5	1.5	1.0						1.0		
GV cylinder	6	5.5	5.0	3.0	2.5	2.0	1.5	1.0			1.0		
Amount of thumbturn projection B (mm)	2.0			1.0						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-AHD-5 (backset 76, 100 mm)

<Illustration shows example of using model No. 5, V18 cylinder.>

Backset (mm)	76	100
Case depth (mm)	106	130



(Note 2)

AHD: Dimensions A and B for cylinders and thumbturns

Door thickness (mm)	Dimension (mm)	
	A	B
35-50	17.5	39
50-63	17.5	46
63-73	22.5	56
73-83	17.5	56

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	29-43 / 43-53 mm

Dimensions/Notch (Unit: mm)

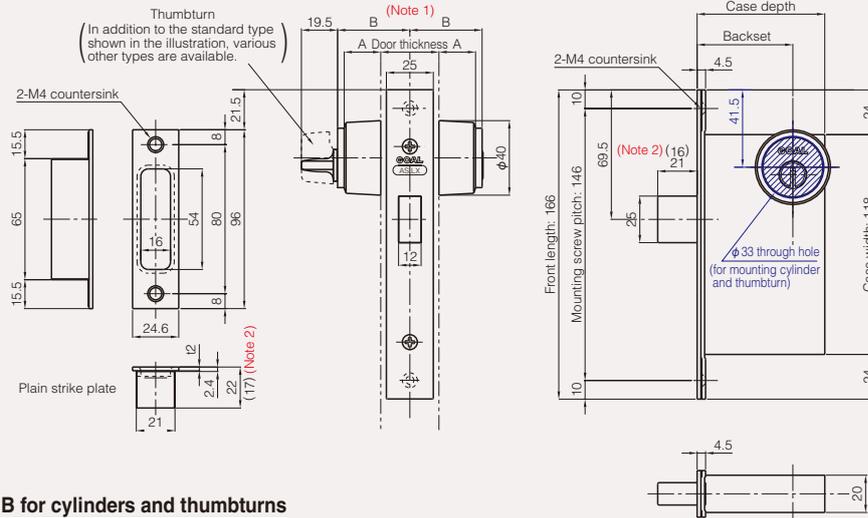
The model No. 4, 45, 6 notches is the same as No. 5 in the illustration.
However create a thumbturn mounting hole (No. 3) or cylinder mounting hole (No. 7) on one side only.)

Door thickness: ## mm or more-less than ## mm

● V-LXD-5 (backset 32, 38, 51, 64 mm)

<Illustration shows example of using model No. 5, V18 cylinder.>

Backset (mm)	32	38	51	64
Case depth (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:

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.

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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, 45, 5, 6, 7	Varies depending on the model and type of cylinder used. For details, refer to the table in the dimensions diagram.
SP 5 pins [S]	5	50, 60, 64, 70 mm (600 mm backset is also available. Refer to P.56.)	27-45 mm

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Dimensions/Notch (Unit: mm) (The notch is the same for all models.)

Door thickness: ## mm or more-less than ## mm

AD series models and door thickness according to cylinder type

Cylinder type (symbol)	Model	Door thickness
—	AD-3	30-45 / 45-55 mm
	AD-45 TSD emergency cylinder	33-45 mm
GP cylinder [GP] V18 cylinder [V] GV cylinder [GV]	GP, V, GV-AD-5, 7	30-43 / 43-53 mm
	GP, V, GV-AD-6	30-40 / 40-50 mm
6-pin cylinder [P] 7-pin cylinder [Z]	P, Z-AD-5	30-45 / 45-55 mm
	P, Z-AD-6	37-47 / 47-57 mm
	P, Z-AD-7	30-55 mm
SP 5-pin cylinder [S] (Note 2)	S-AD-5	22-27 / 27-45 / 45-55 mm

Note: 600 mm backset is also available and is listed in the sliding door lock section as a sliding hanger door lock. Refer to P.50 for the main text and P.128 for the dimensions.

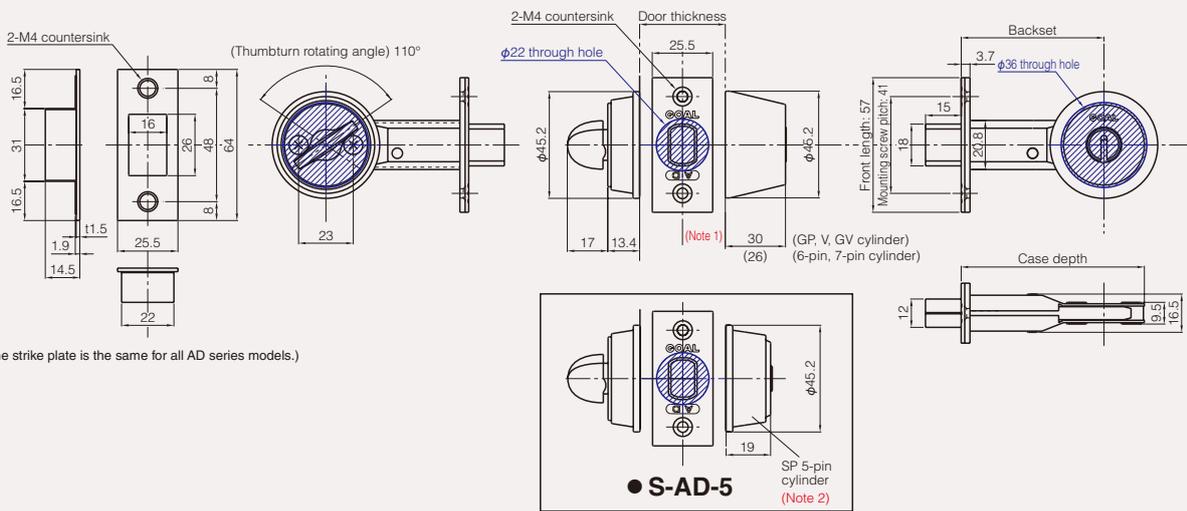
V(GP,GV)-AD-5 (Door thickness 30~43 / 43~53 mm) <Illustration shows example of using model No. 5 with V18 cylinder. >

P(Z)-AD-5 (Door thickness 30~45 / 45~55 mm)

Note 1: The height of V18, GP, and GV cylinders is 30 mm, however the height of 6-pin and 7-pin cylinders is 26 mm.
Note 2: For SP 5-pin cylinders, the model is No. 5 only and MK and other key systems are not supported.

(* Same for all models.)

Backset (mm)	50	60	64	70
Case depth (mm)	67	77	81	87



(* The strike plate is the same for all AD series models.)

V(GP,GV)-AD-6 (Door thickness 30~40 mm)

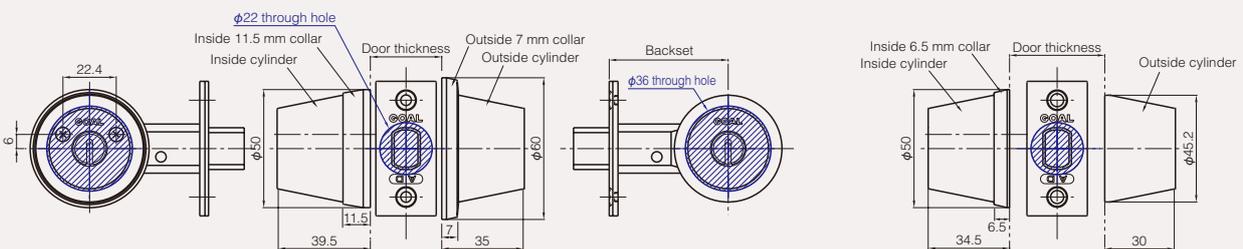
<Illustration shows example of using model No. 6 with V18 cylinder. >

(* A collar is required on both sides.) (* Dimensions and strike plates not listed are the same as V-AD-5 above.)

V(GP,GV)-AD-6

(Door thickness 40~50 mm)

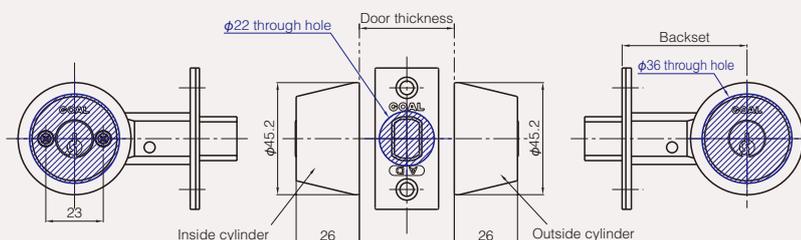
(* A collar is required on the inside.)



(* For detailed collar illustrations, refer to the following page.)

P(Z)-AD-6 (Door thickness 37~47 / 47~57 mm) <Illustration shows an example of using model No. 6 with a 6-pin cylinder. >

(* A collar is not required.) (* Dimensions and strike plates not listed are the same as V-AD-5 above.)



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Door thickness: ## mm or more-less than ## mm

<Collars used with AD-6>

● Collar used with V (GP, GV)-6 (Door thickness 30~40 mm)

(Use a collar on both sides.)

● Inside 11.5 mm collar

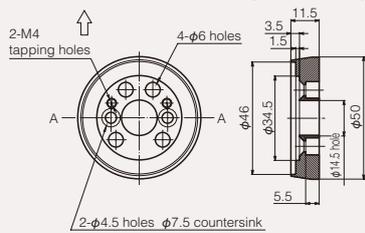
● Outside 7 mm collar

● Collar used with V (GP, GV)-6

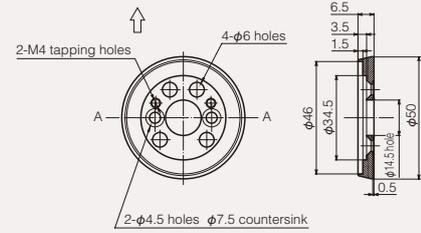
(Door thickness 40~50 mm) (Use a collar on the inside only.)

● Inside 6.5 mm collar

When installing, the M4 tapping hole should be facing up.



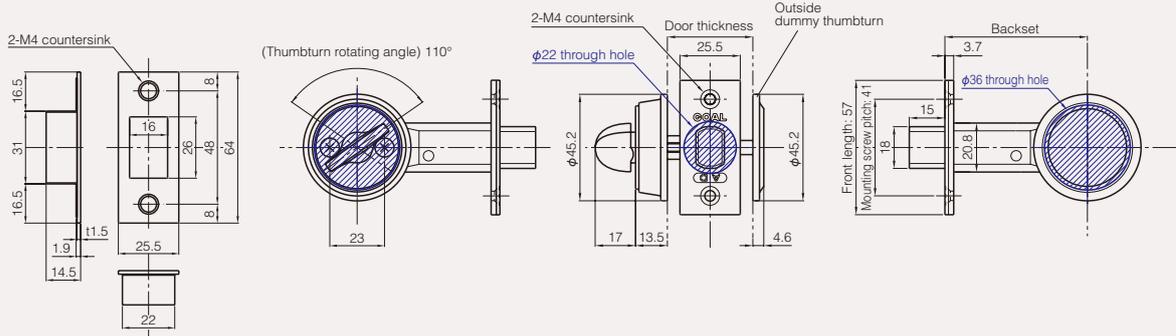
When installing, the M4 tapping hole should be facing up.



● AD-3 (Door thickness 30~45 / 45~55 mm)

(* Same for all models.)

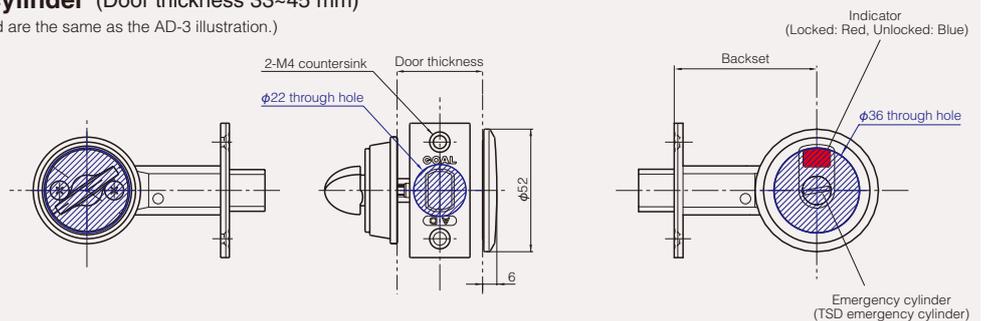
Backset (mm)	50	60	64	70
Case depth (mm)	67	77	81	87



(* The strike plate is the same for all AD series models.)

● AD-45 TSD emergency cylinder (Door thickness 33~45 mm)

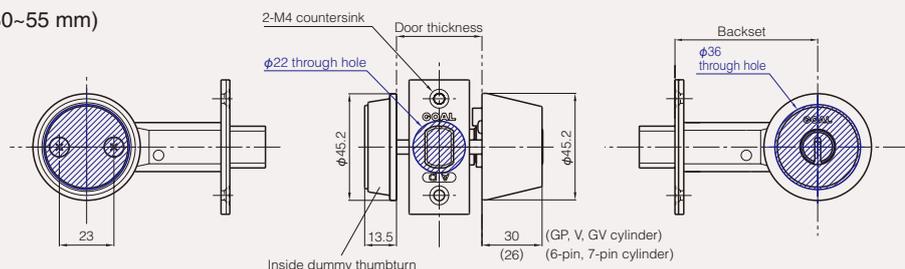
(* Dimensions and strike plates not listed are the same as the AD-3 illustration.)



● V (GP, GV)-AD-7 (Door thickness 30~43 / 43~53 mm)

(* Dimensions and strike plates not listed are the same as the AD-3 illustration.)

● P(Z)-AD-7 (Door thickness 30~55 mm)



2510 Reinforced glass door locks

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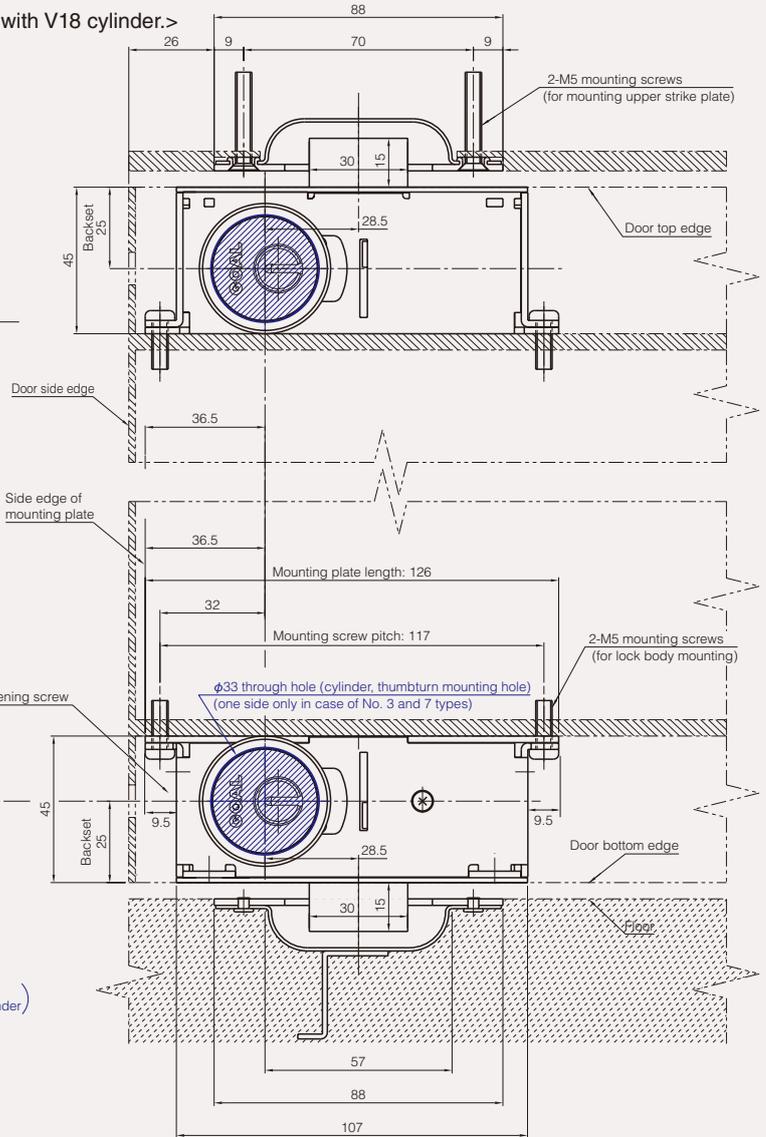
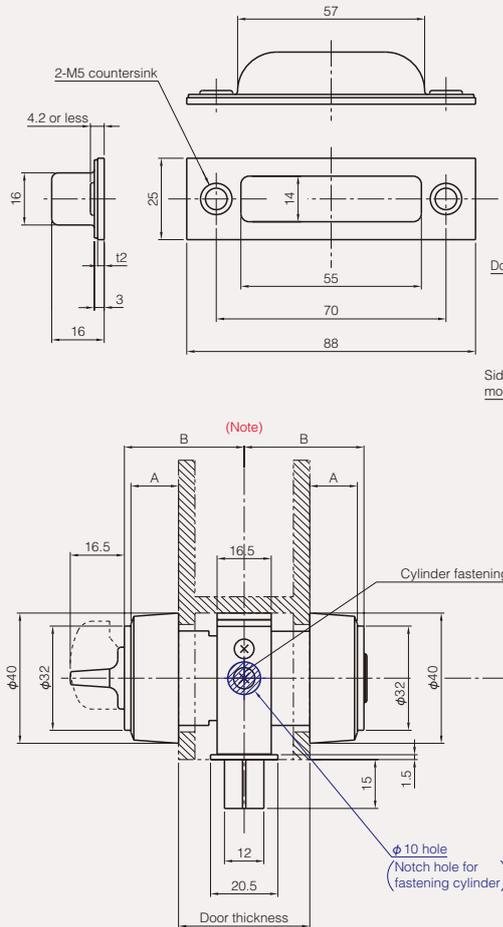
Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z]	3, 5, 6, 7	25 mm 25-38 / 38-48 / 48-58 mm

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.>

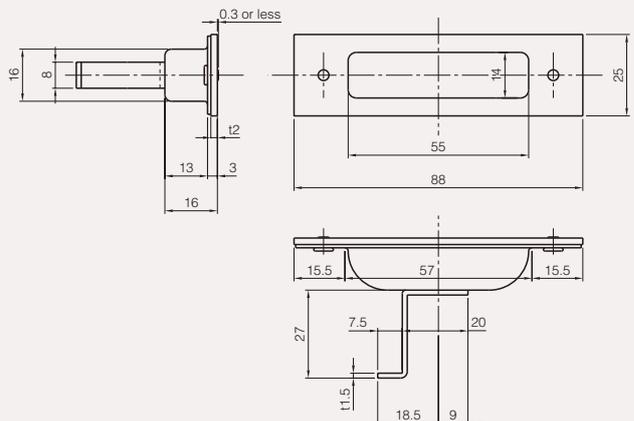
● **2510 top strike** (sold separately)



(Note)
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)



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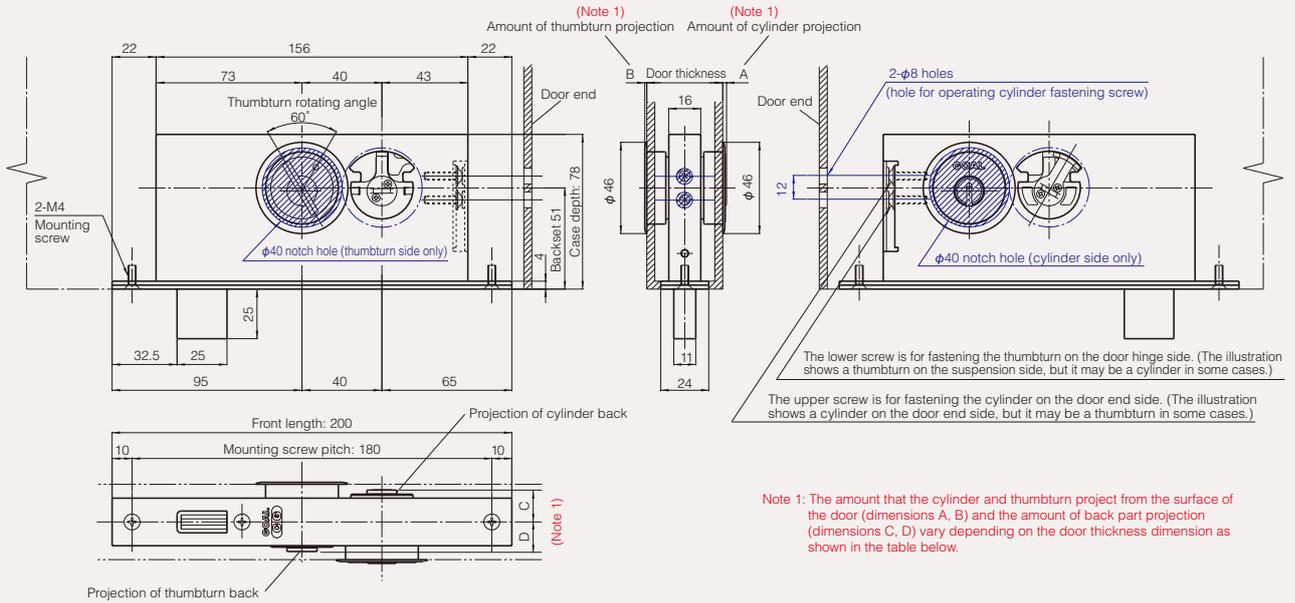
Dimensions

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	51 mm 35-38 / 38-45 / 45-55 / 55-65 / 65-75 mm (Refer to the table in the illustration for details.)

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-CG-5** <Illustration shows example of using model No. 5, V18 cylinder, no bracket.>

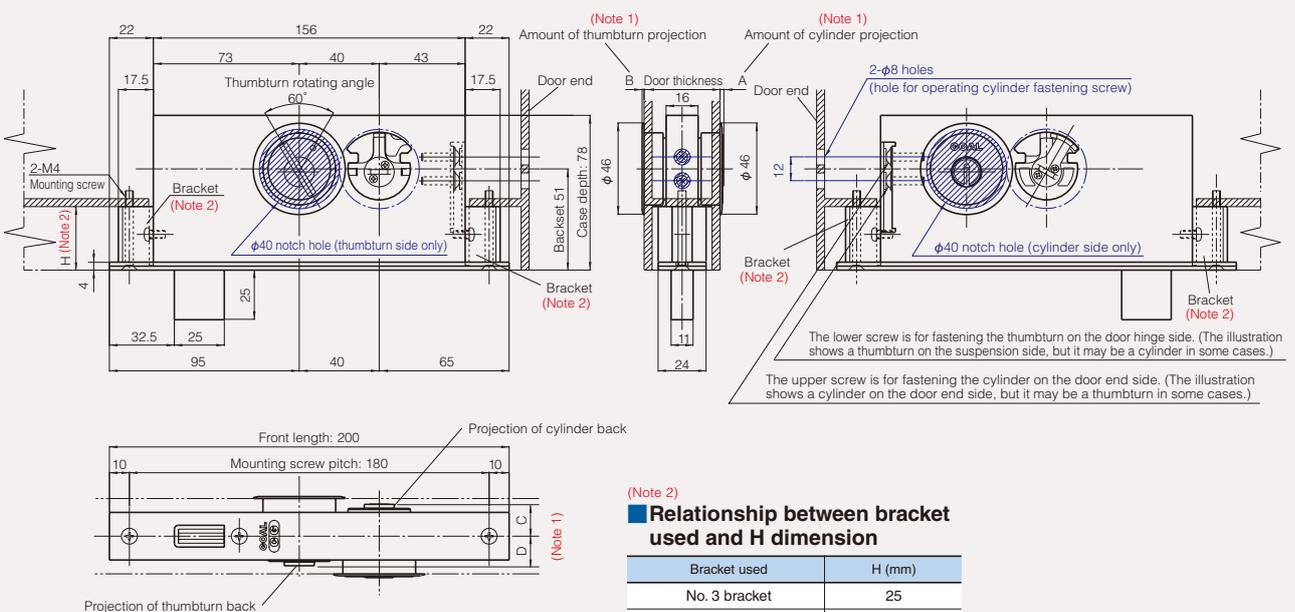


Note 1: The amount that the cylinder and thumbturn project from the surface of the door (dimensions A, B) and the amount of back part projection (dimensions C, D) vary depending on the door thickness dimension as shown in the table below.

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 75		
	35	36	37	38	39	40	41	42	43	44					
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												14.8	10.3	14.8
Amount of thumbturn back projection D (mm)	14.9												14.9	10.4	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.)

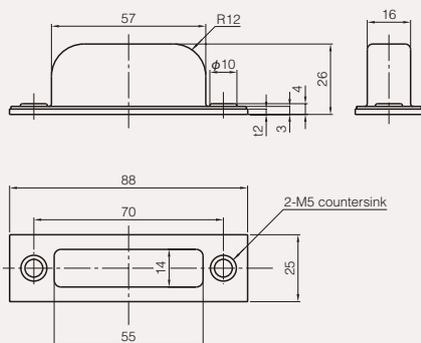


Relationship between bracket used and H dimension

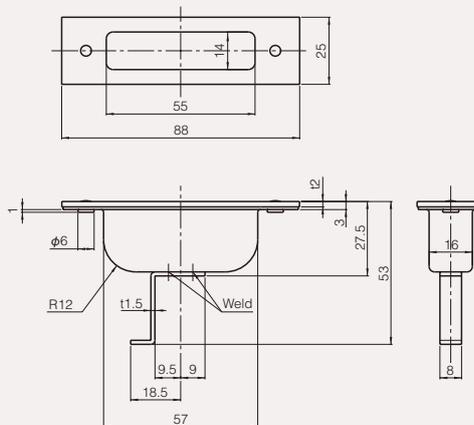
Bracket used	H (mm)
No. 3 bracket	25
No. 1 bracket	29
No. 2 bracket	32

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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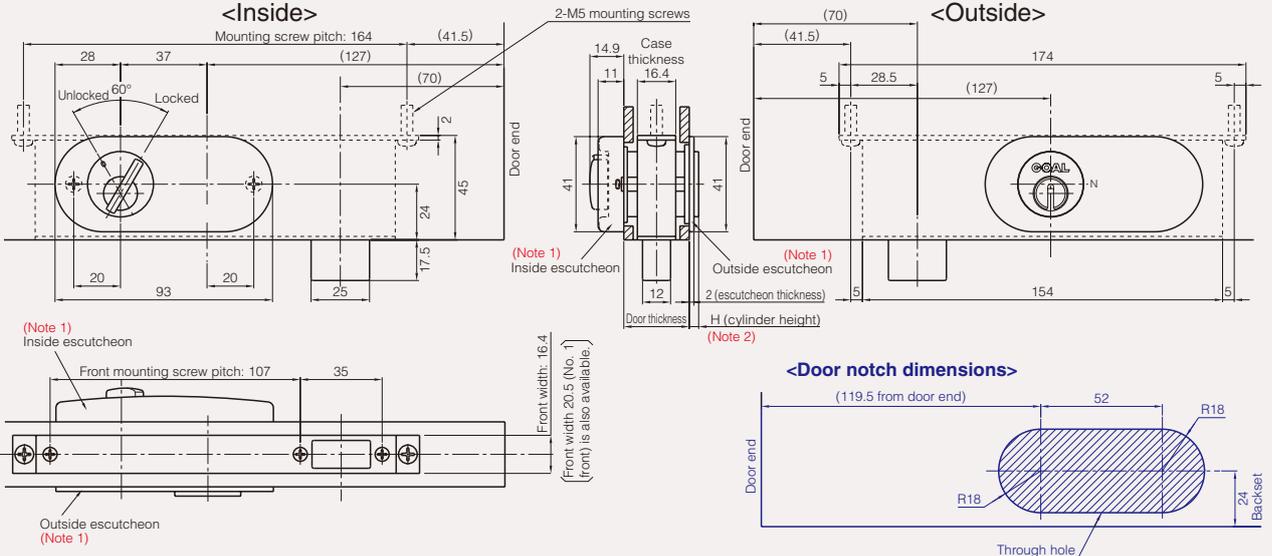
Dimensions

Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)
GP [GP] V18 [V]	6 pins [P] 7 pins [Z]	3, 5, 6, 7	24 mm
GV [GV]			27~32 / 32~37 / 37~42 / 42~47 mm

Dimensions/Notch (Unit: mm) (The notch is the same for all models.)

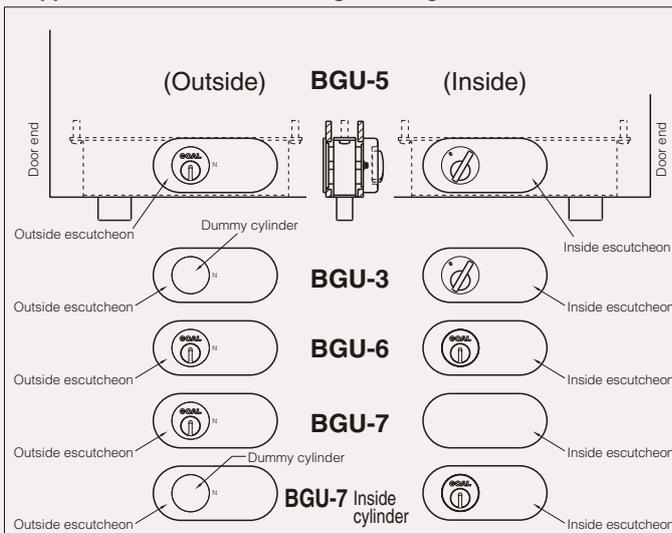
Door thickness: ## mm or more~less than ## mm

- **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.)



Note 1: Be sure to use an outside escutcheon on the door outside and an inside escutcheon on the door inside.

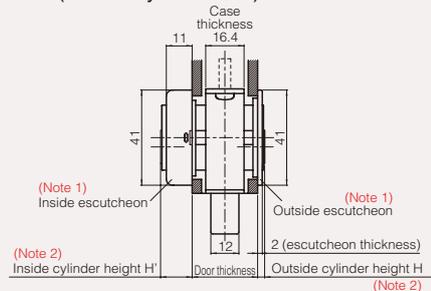
<Appearance when used on single sliding door>



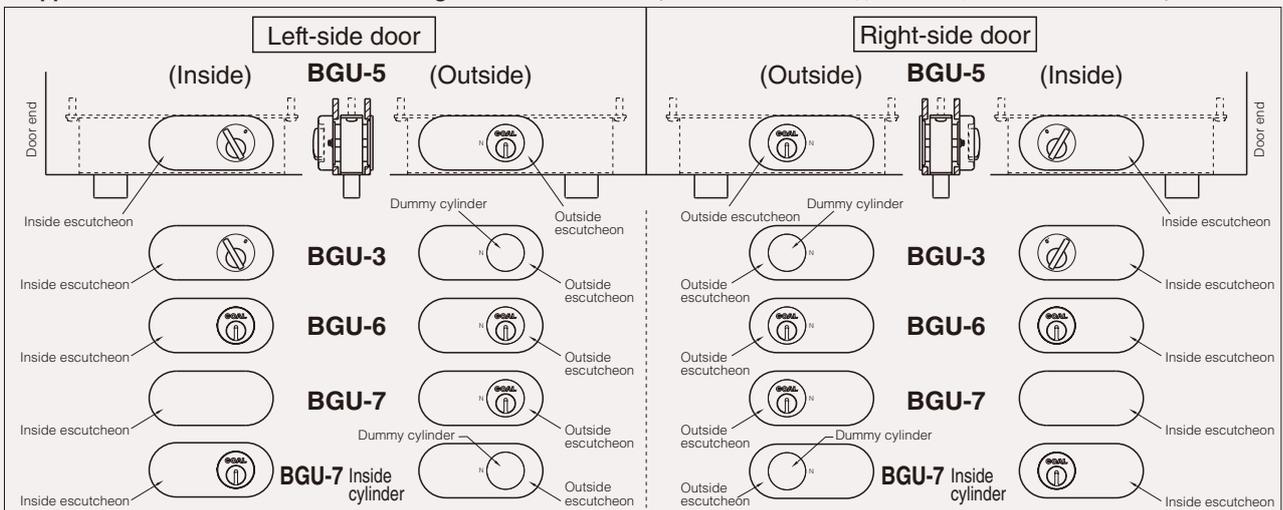
(Note 2) **Cylinder height H according to the model and cylinder type**

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.)



(* 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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Key switches
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Hotel card
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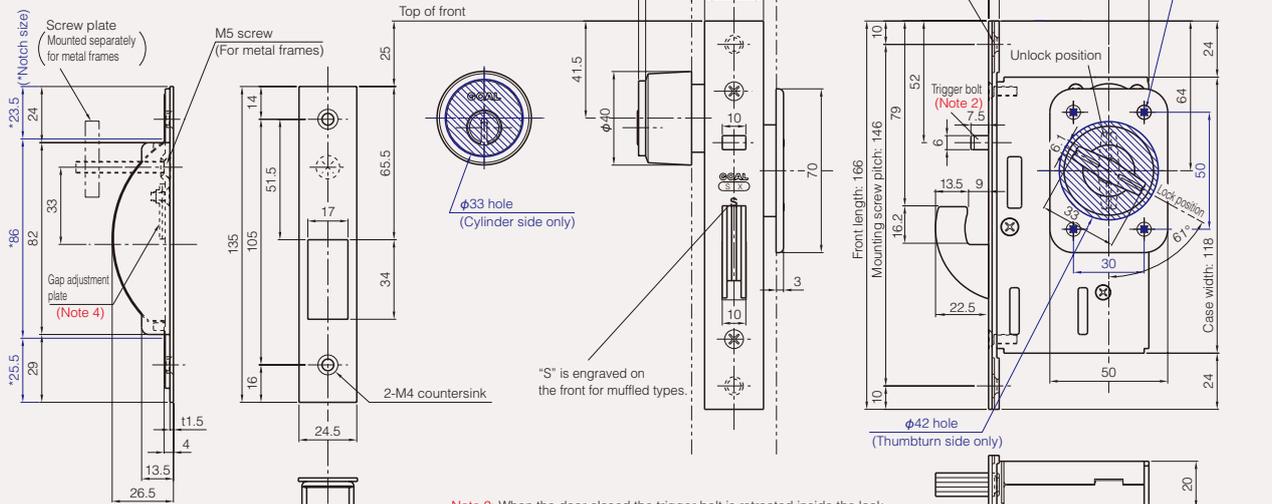
Dimensions

■ 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.



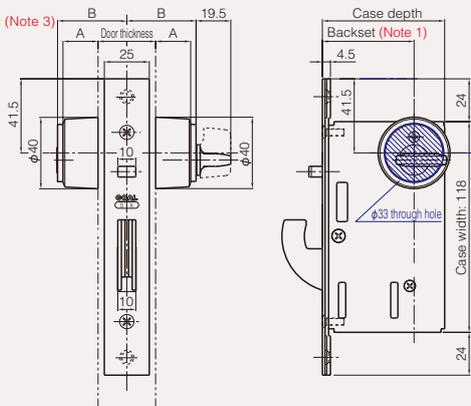
Note 4: Two gap adjustment plates are attached to the strike plate. See "Using the gap adjustment plates" below for how to use the plates according to the gap amount.

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)

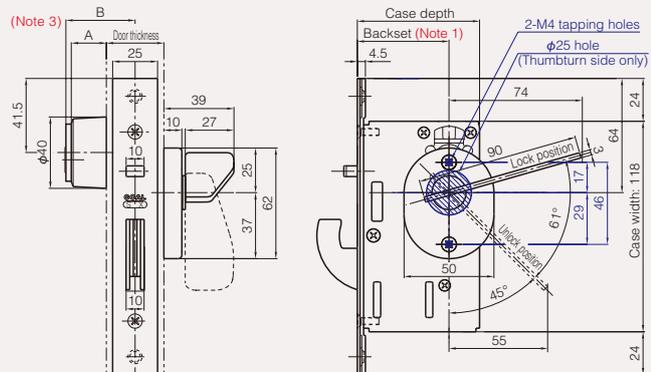
Note 1: The backset for muffled-type SXS models is 76 mm.

(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.



■ 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

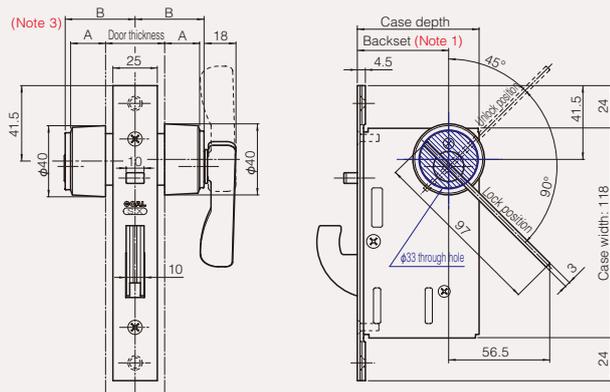
Note 4)

■ 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.



PSS Sliding door locks (hooked deadbolt) PSS

Note 1: Be aware that although mounting is possible when the door thickness at the cylinder or thumbturn mounting part is 25 mm or more, the door thickness at the lock body front mounting part must be 28 mm or more.

Compatible cylinders	Model No.	Backset	Door thickness	Gap (door and jamb)
GP [GP] V18 [V] GV [GV]	6 pins [P] 7 pins [Z]	3, 45 5, 6, 7	38 mm (Varies depending on the type of cylinder and thumbturn used. See P.58 for details.)	5 mm or less

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Hotel card locks

Electric locks

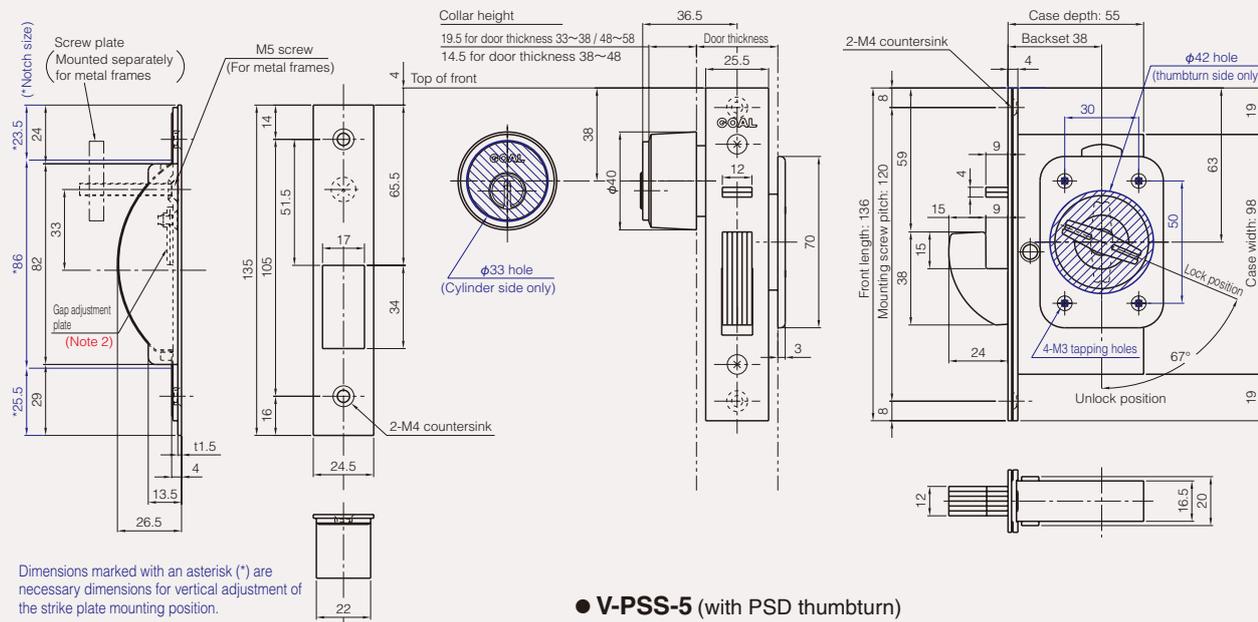
Electrical conductors, Control boxes

Dimensions

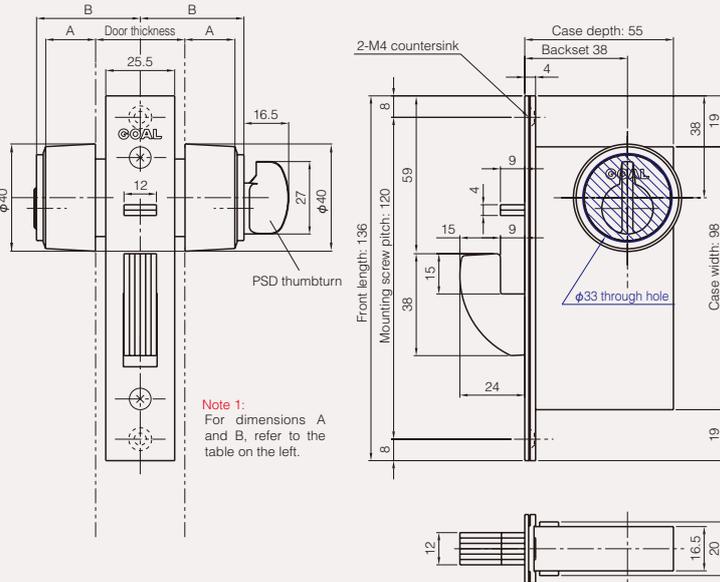
Dimensions/Notch (Unit: mm) (Notch dimensions will vary depending on the model and thumbturn model.)

Door thickness: ## mm or more~less than ## mm

● V-PSS-5 (backset 38 mm) <with V18 cylinder and cup (PSS) thumbturn>



● V-PSS-5 (with PSD thumbturn)



(Note 1)

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

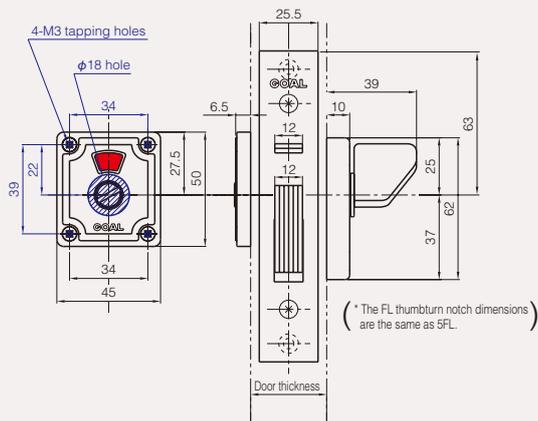
(Note 2)

Using the gap adjustment plates

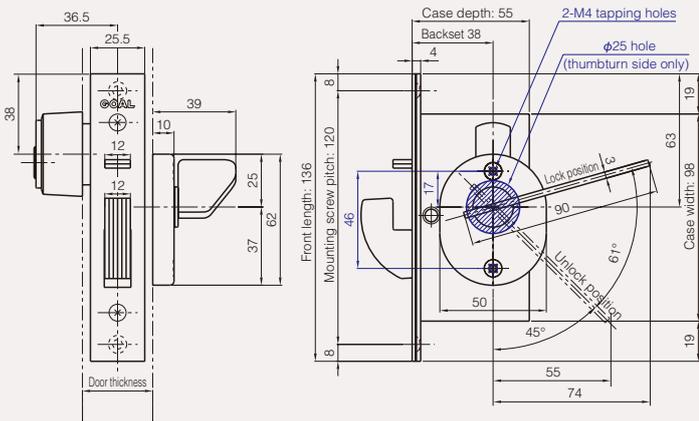
Gap (door and jamb)	0~2.5 mm	2.5~3.8 mm	3.8~5 mm
Plates used	Use both adjustment plates.	Remove one adjustment plate.	Remove both adjustment plates.

Two gap adjustment plates are attached to the strike plate. Use them according to the gap size.

● PSS-45FL (with PSS-45 emergency cylinder and FL thumbturn)



● V-PSS-5FL (with FL thumbturn)



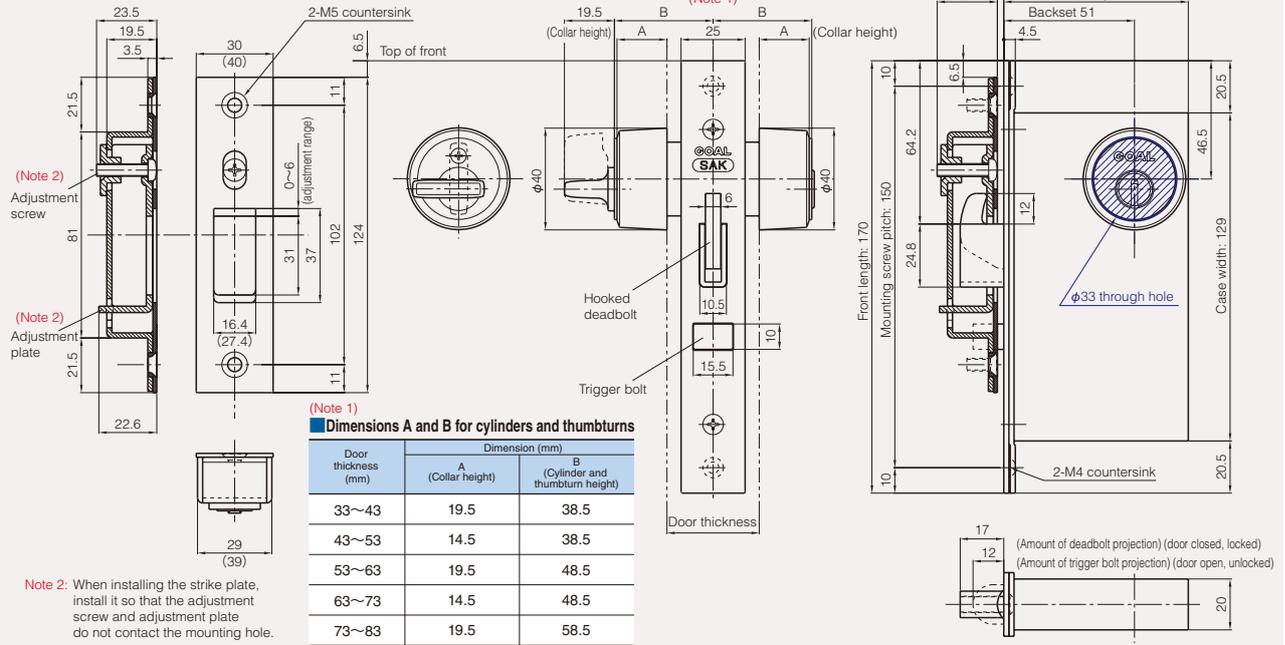
Hooked deadbolt locks for sliding doors SN

Model	Compatible cylinders	Model No.	Backset	Door thickness (Contact GOAL for more information.)	Gap (door and jamb)	
SAK	GP [GP]	6 pins [P]	3,5,6,7	51 mm	33~43 / 43~53 mm	2.5 mm or less
	V18 [V]	7 pins [Z]	3,5,6,7		29~43 / 43~53 mm	
SN	GV [GV]		45	25 mm	29~43 mm	2 mm or less

Dimensions/Notch (Unit: mm)

● **V-SAK-5** (backset 51 mm)
 <Illustration shows V18 cylinder, model No. 5.>

● Standard strike plate (* Large No. 1 type strike plate is also available.)
 * Dimensions in () are No. 1 type strike plate dimensions.

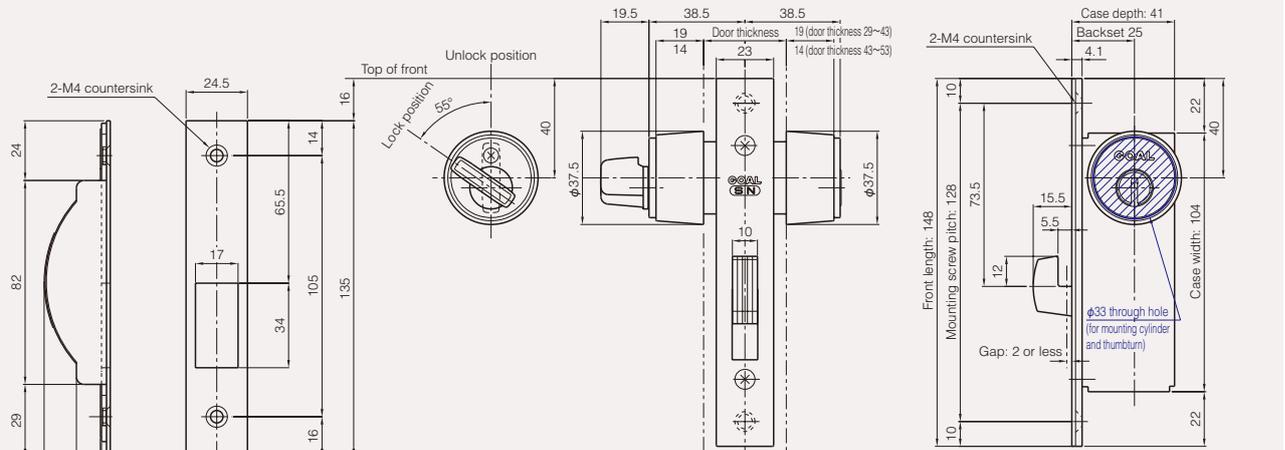


Precautions:

- 15 N or more of force is required to retract the trigger bolt and extend the hooked deadbolt.
- If door deflection (deviation in the door thickness direction) occurs when closing the door, it will not be possible to lock the door. Be sure to install a guide onto the door or take other steps to prevent deflection.
- When there is no guide, use the No. 1 type strike plate.

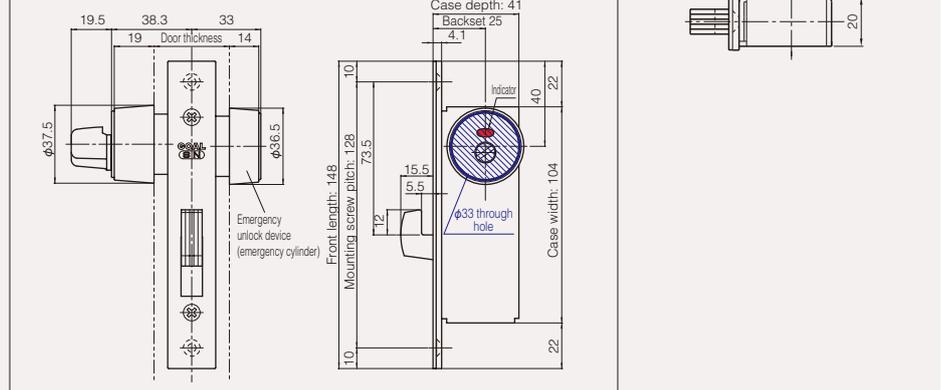
Door thickness: ## mm or more~less than ## mm

● **V-SN-5** (backset 25 mm) <Illustration shows V18 cylinder, model SN-5.>



● **SN-45** <Example of using emergency unlock device (emergency cylinder) with indicator>

* Door thickness is 29~43 mm.



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