MASTER KEY SYSTEMS

With complemented patents we are ready to meet the needs and security demands of our customers and markets.

Assa Twin Combi and Assa Twin Global involve key control in all security levels and create a flexible platform when planning a Master Key System.

All our mechanical high security cylinders with Twin technology can be combined in advanced On-line and Off-line solutions for example CLIQ-, Twintronic- and proximity technology.

The foundation in a security solution is created with different security zones where the mechanical authorization of the key is complemented with electronics for intelligent On- and Off-line functions.
Assa Security Pyramid leads you right
A security solution is more than products. Our security pyramid shows 4 different security levels where not only the physical product is important. Handling, services and distribution of both materials and occurring codes can in different combinations give a higher security-all based on your needs!
Assa’s Security Pyramid show how you can adjust key control in a Master Key System depending on what is to be protected. The level of key control and functionality decide the security of the locking unit and Master Key System.

Absolute
The key control in security level Absolute means that there always is a registered authorization contact between the system owner and a selected and certified Assa Service Station. The contracts regulate responsibility for additions and service as well as re-orders of keys that are made out of patented and registred of design key blanks. The keys can be authorized controlled On-Line or Off-Line depending on technology at the same time that audit trails are made.

Exklusive
The key control in security level Exclusive means that extra keys are made out of patented and registered of design key blanks. Here an approved and registered authorization contract is needed when reordering keys. The keys can be authorized controlled Off-Line at the same time as occurrences are noted.

Selected
The key control in security level Selected means that extra keys are made out of patented and registered of design key blanks. Here an approved and registered authorization contract is needed when reordering keys. Master Key Systems can be projected with a combination of two different classes of security, high and medium. Mechanical cylinders are recomended for Master Key Systems where the mechanics alone satisfy the needs of the operation.

Open
The key control in security level Open means that keys can be copied at a certified Assa Service Station assumed that the orderer has a test key and valid identification. Mechanical cylinders at Open level are used where the mechanics satisfy the needs of the operation and when is no demand on contract and key control.
Assa Twintronic

Application
Assa Twintronic is used as an effective perimeter protection On-line and for doors demanding registered and controlled security. Assa Twintronic is included in High Security locksets and has the same possibilities and conveniences as on Access Control System. The system can easily be connected to doors with high demands of On-line security. Twintronic consist of a high security cylinder in combination with an electromechanical blocking. The key consists of a patented mechanical code and a unique electronic system code. The Twintronic key communicates with the cylinder through the antenna in order to be authorized and the event is registered in the Local Central Unit of the system.

Integration in Master Key System
A Master Key System with Assa dp technology makes it possible to integrate Twintronic in one or several doors without changing the rest of the Master Key System.

Access Control systems
SOLICARD ARX ACCES
With the software ARX Access/RiTA the administrator can manage the Access Control System effectively and rationally.

Characteristics
Fundamental mechanical security. The cylinder contain electromechanical and mechanical code for blocking.

The LED indicate green light when access is granted. If the key is unauthorized the LED indicate red light.

The antenna is integrated in a decorative casing surrounding the cylinder and shall be complemented with cylinder accessories for additional protection.

Available in Scandinavian round or oval cylinder shape, single or double cylinder.
Nomenclature and system architecture

**COM-Center**
**DAC**
**Door Control Unit**
**Local Central Unit**

**Twintronic Cylinder**
**Twintronic Key**
**Open button**
**PC**

**Cylinder shapes**

<table>
<thead>
<tr>
<th>Oval cylinder shapes</th>
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<tbody>
<tr>
<td>E4401</td>
<td>E4403</td>
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<thead>
<tr>
<th>RIM cylinder shapes</th>
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<tr>
<td>E4407</td>
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<tr>
<th>Round cylinder shapes</th>
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<tbody>
<tr>
<td>E4411</td>
<td>E4413</td>
<td>E4412</td>
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**Auxiliary cylinders**

<p>| |</p>
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<td>E4425</td>
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</table>

**PC-software**
SOLICARD RITA
ARX Access

**Local Central Unit range**
LCU 9016
UC 6416

**Cylinder range**
Assa dp 4400 series

**Measurement**

Round cylinder shape

<p>| |</p>
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<td>32.7</td>
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Oval cylinder shape

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<td>39.5</td>
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</table>

For Twintronic function add index E before catalogue number. Ex. E4411.
Application
Assa CLIQ-technology is used as an effective perimeter protection Off-line and for doors demanding registered and controlled security. The technology provides electronic authorization on group- or individual levels. Master Key cylinders with CLIQ function has the same security Grade as mechanical Assa dp cylinders but with developed electronic flexibility and security.

Integration in mechanic Master Key System
A Master Key System with Assa dp technology provides CLIQ integration in one or several doors without changing the rest of the MKS.

Characteristics
Assa CLIQ is by insurance companies included in approved lock sets. The system can easily be integrated with doors demanding Off-line security. CLIQ consist of a high security cylinder with mechanical and electromechanical blocking elements. The key consist of a patented mechanic code and a unique electronic code. Information stored in the key is transmitted through a contact rail to be approved and registered in the cylinder.

Function
Since the units are powersupplied by the battery in the key the cylinders with CLIQ function doesn’t need wiring. This makes the installation, retrofit and after sales service very easy. In a lock system with CLIQ-function different types of auxiliary cylinders, padlocks or cylinder shapes can be combined. The cylinder has a chip with a memory, processor and operational circuit board built in. The key has a corresponding chip placed in the keybow. The programmed electronic code in the key cooperates with the electronics of the cylinder and it’s built in motor. All information is encrypted by DES. This means a secure digital communications between keys, cylinders and programming units. The mechanical combinations and the electronic codes cooperate with each other and create a very high level of security with great flexibility.

PC-software, Assa Performer
Keys and cylinders have digital labelling for simple PC-administration. All keys included in the system are given authorization with special software, Assa Performer. To programme cylinders the C-key of the MKS is used. The C-key is also used to change authorization of groups or individuals.
U KT User Key
The user’s key. Consists of mechanical combinations, electronics for identification and battery for power supply.

D K Service key
The service station’s key. Is used for identification between Assa and the service station, at digital communication and as complement CLIQ-keys and cylinders.

C K Programming key
The system operator’s key. Is used to programme in and out keys in cylinders. It can carry information for adaptation of authorization and/or reading of the cylinder history. Cylinder programming is not possible without the Set-Up key of the object.

P DK Contact key
The system operator’s key. Contact key is used for identification of cylinders and when adding or increasing the lock system.

Cylinders
Delivered in round and oval cylinder execution or varying types of padlocks.
By SBSC AB certified cylinder and fulfils requirements for SS3522, class 3. SSEN 1303 Grade 6.

Power supply
Lithium battery of standard type 2025.

Electronics
CLIQ-technology is specially developed to meet the demands of the market on flexibility and security.

DES-code
DES is an advanced cipher code for civil use.

Terminal
Programming unit for programming and putting cylinders and keys with CLIQ-function in operation.

Cylinder shapes

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>B4401</td>
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<table>
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<th>Round cylinder shapes</th>
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<td>B4413</td>
<td>B4412</td>
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<table>
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<tr>
<th>Auxiliary cylinders</th>
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<td>B4418</td>
<td>B4425</td>
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<table>
<thead>
<tr>
<th>Padlocks</th>
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<tbody>
<tr>
<td>Assa Grön</td>
<td>Assa Blå</td>
<td>Assa Röd</td>
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</table>

Measurement

<table>
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<td>Ø25</td>
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<table>
<thead>
<tr>
<th>Oval cylinder shape</th>
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<tbody>
<tr>
<td>Ø32.7</td>
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<table>
<thead>
<tr>
<th>Industrial lock</th>
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<td>Ø39.5</td>
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</table>

For CLIQ Function,
• add index B before catalogue number.
At Cylinder series Assa dp
Ex, B4401
• For complete description of all CLIQ functions see respective product information leaflet.
Assa dp 4400

Application
Assa dp 4400 series is a high security cylinder on patented security level which is recommended for all types of mechanical locking systems. Within each Master Key System it is possible to specify high- and medium security cylinders as well as auxiliary cylinders such as padlocks and camlocks. For this reason Assa dp series is the ideal solution for all types of operations and buildings. The CLIQ Off-line function can be added to the cylinders to provide a higher level of flexibility and security where so required, for instance perimeter protection and other important spaces where the security requirements are higher. If on-line functionality with instant and direct changes in required, the Twintronic functionality offers optimal security and flexibility to the protection of your premises.

Features
• dp 4400 series fulfils the requirements according to EN1303, security Grade 6.
• Protection against physical attack
• Protection against picking.
• The double performance technology with scrambled combinations on both blocking elements offers optimal protection against manipulation

Function
The Assa dp technology is protected by national and international patents against copying of keys, unauthorised use of keyblanks and also cylinder components. Assa dp platform is developed with double independently working blocking mechanisms for protection against physical attack, picking and manipulation. Different cylinder shapes (i.e. Scandinavian, Euro profile & Mortise etc.) and functions can be combined within the same locking system for mechanical, off-line and on-line cylinders.

The patented technology within the dp platform allows for creating unique parallel system solutions considering key combinations and cylinder performance. This gives the dp platform the possibility for use in both unique custom made solutions as well as traditional Master Key System configuration.

The dp-technology is developed for and allows for easy upgrading of CLIQ, RFID and other future technologies.

Assa dp uses force controlled horizontal blocking elements for increased operational security and usage in aggressive environments where risk of freezing and condensation is high. Using force controlled horizontal blocking elements also reduces the friction and minimises the wear and tear of the keys and cylinder components.

Assa dp 4400 can be combined with Assa dp 2400 series for doors where the security demands does not require approved locking.
### Cylinder shapes

#### Scandinavian Oval Cylinders

| 4401 | 4403 | 4402 | 4407 |

#### Scandinavian Round Cylinders

| 4411 | 4413 | 4412 |

#### Cam Lock

- Door Tube Cylinder
- Wall Tube Cylinder
- Cylinder set Panic Devices

| 4470 | 4488 | 4418 | 4425 |

#### M20 EURO Cylinders

| 44M22 | 44M23 | 44M27 | 44M25 | 44M24 |

#### Mortice Cylinders

| 4451 | 4457 |

#### Padlocks

- Green
- Blue
- Red

### Dimensions

- **Round cylindershape**
  - Ø25
  - Ø31
  - Ø32.7
  - Ø39.5

- **Oval cylindershape**
  - Ø20

- **Cam locks**
  - Ø20

### Adapter / core

- **Round cylindershape**
  - RC003

- **Core**
  - 4459

### Assembly

Put the cylinder plugs over the screw holes for controlled dismantling. First turn the key to "half past twelve" and push in the plug between the screws on the right side of the cylinder. Then turn the key to "half past nine" for assembly of the left side plug.
Assa Twin Pro 6100 series is a high security cylinder with PATENTED protection against unauthorised key duplication. Recommended for large and complex Master Key Systems with options to specify in both high and medium security levels. Assa Twin Pro series is ideal in commercial areas, institutions, industrial and offices buildings.

Features
Keys and cylinder mechanism are fully protected by international patents against unauthorised duplication. Twin Pro is available in a full range of Scandinavian and international cylinder shapes. The Twin series can be used to upGrade and re-key most commonly lock sets. Cylinders and padlocks can be incorporated in the same Master Key Systems. Assa Twin Pro 6100 can be combined with medium security series 2100 and electromechanical functions such as CLIQ and Twintronic.

Function
• High security cylinder concept with two independent blocking mechanism for full resistance to any currently known method of picking and manipulation.
• 6-Pin tumbler system combined with Twin Pro sidebar mechanism.
• The cylinder range 6100 Pro fulfils the requirements in EN 1303 Grade 5.
• High security 6100 series with hardened steel inserts for drill resistance to be used in exterior door applications.
• Medium security 2100 series with fully protected key control designed for in door application inside the building.
Cylinder shapes

<table>
<thead>
<tr>
<th>Scandinavian Oval Cylinder</th>
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</thead>
<tbody>
<tr>
<td>XX01</td>
<td>XX03</td>
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<table>
<thead>
<tr>
<th>Scandinavian Round Cylinder</th>
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<tbody>
<tr>
<td>XX11</td>
<td>XX13</td>
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<table>
<thead>
<tr>
<th>Cam Lock</th>
<th>Door Tube Cylinder</th>
<th>Wall Tube Cylinder</th>
<th>Cylinder set Panic Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>XX70</td>
<td>XX88</td>
<td>XX18</td>
<td>XX25</td>
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<table>
<thead>
<tr>
<th>M20 EURO Cylinders</th>
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<tbody>
<tr>
<td>XXM22</td>
<td>XXM23</td>
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<table>
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<tr>
<th>Padlocks</th>
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<tbody>
<tr>
<td>Green</td>
<td>Blue</td>
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</table>

For a complete reference number change XX to series number.
Example:
- High Security XX01 => 6101
- Medium Security XX01 => 2101

For CLIQ functions add an A in front of ref. nr.
Example:
- XX01 => AX01

1. Check that the arrows on the lock case in the cylinder hole are pointing downwards at both sides of the door.
2. Mount the cylinder from the inside using enclosed screws.
3. Test the cylinder for proper operation by using the key without closing the door.
4. Block the screws with enclosed blocking plug according to the following:
   - Insert the key
   - Turn the key to 12:30 o’clock
   - Place one blocking plug between the screws on the left side of the cylinder
   - Turn the key to 9:30 o’clock
   - Place one blocking plug between the screws on the right side of the cylinder
   - Fasten accessories
Assa 600

Recommended for commercial areas, institutions, industrial and offices building.

**Application**
Assa 600 is a High Security Cylinder within the OPEN level of Assa security level. Recommended for use in large and complex Key Differ applications and normal design of Master Key Systems. Assa 600 security solution is ideal for use in commercial areas, institutions, industrial and offices buildings.

**Features**
- High Security Cylinder
- 6-Pin tumbler system
- Tha Assa 600 fulfils the requirements in EN 1303 Grade 3 and together with high security defenders En 1303 Grade 6
- Resistance to picking and manipulation
- Controlled admittance
- Designed for frequent use

**Function**
Assa 600 is available in a full range of Scandinavian and international cylinder shapes. Assa 600 is intended for new Master Key Systems or for upGrade and Re-Key of most commonly lock sets. Cylinders and padlocks can be incorporated in the same Master Key System.
Cylinder shapes

<table>
<thead>
<tr>
<th>Scandinavian Oval Cylinders</th>
<th>Scandinavian Round Cylinders</th>
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</thead>
<tbody>
<tr>
<td>601</td>
<td>611</td>
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<td>603</td>
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<td>602</td>
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<td>607</td>
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</tbody>
</table>

Cam Lock | Door Tube Cylinder | Wall Tube Cylinder | Cylinder set Panic Devices

| 670 | 688 | 618 | 625 |

M20 EURO Cylinders

| 6M22 | 6M23 | 6M27 | 6M25 | 6M24 |

Mortice Cylinders

| 651 | 657 |

| 1 1/8" | 1 1/4" |

| Adams Rite | 651A-1 | 651B-1 |
| Bargent Cam | 651A-2 | 651B-2 |
| Corbin Clover | 651A-3 | 651B-3 |
| Corbin Beaver | 651A-4 | 651B-4 |
| Yale Std Cam | 651A-5 | 651B-5 |
| Schlage L Cam | 651A-6 | 651B-6 |
| Regal Cam | 651A-7 | 651B-7 |

| Assa Green | Assa Blue | Assa Red |

1. Check that the arrows on the lock case in the cylinder hole are pointing downwards at both sides of the door.
2. Mount the cylinder from the inside using enclosed screws.
3. Test the cylinder for proper operation by using the key without closing the door.
4. Block the screws with enclosed blocking plug according to the following:
   - Insert the key
   - Turn the key to 12:30 o’clock
   - Place one blocking plug between the screws on the left side of the cylinder
   - Turn the key to 9:30 o’clock
   - Place one blocking plug between the screws on the right side of the cylinder
   - Fasten accessories
Assa M20 Cylinder

Features
Assa M20 cylinder range is available as a double cylinder, with a turn or as a single cylinder. It is a modular cylinder which means it can easily be rebuilt to various lengths in accordance to existing door thicknesses. When there are changes made within the organisation or in a building it is simple to redesign the cylinder to achieve new cylinder functions. The M20 cylinder range fulfils the requirements in EN 1303 Grade 5.

Function
The M20 cylinder is available in two different security levels. This makes it possible to combine the security levels to high or medium security into the same Master Key System. The high security cylinder has drill and picking protection. The medium security cylinder is designed to fulfill security demands for Assa PATENTED key control.

Application
Assa cylinder M20 cylinder range is designed to be installed into EURO profile locksets. The EURO cylinders can be integrated in Assa Master Key System with scandinavian and international cylinder shapes.
Cylinder versions

<table>
<thead>
<tr>
<th>Double Cylinder</th>
<th>Single Cylinder</th>
<th>Cylinder, design turn</th>
<th>Cylinder, narrow profile turn</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Double Cylinder" /></td>
<td><img src="image" alt="Single Cylinder" /></td>
<td><img src="image" alt="Cylinder, design turn" /></td>
<td><img src="image" alt="Cylinder, narrow profile turn" /></td>
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</tbody>
</table>

For a complete reference number change XX to series number.
Example: High Security XX01=>4401, Medium Security XX01=>2401

Guideline for M20 EURO Accessories
Location of lockcases, cylinders and accessories

1. Specification of M20 cylinder/turn and accessories.
   a) Measure the door thickness (A).
   b) Measure the distance between the centre of the lock case and the security side of the door (B).
   c) Measure the distance between the centre of the lock case and the inside of the door (C).
   d) Add the thickness of the cylinder accessories to the B and C measurement. The result will be the length of the cylinder/turn.

XXM23 Single Cylinder

M20 Modular Accessories
XXM22 Double Cylinder

<table>
<thead>
<tr>
<th>Beam</th>
<th>House extension 1</th>
<th>House extension 2</th>
<th>Plug extension 1</th>
<th>Plug extension 2</th>
<th>Key extension</th>
<th>Turn extension</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Beam" /></td>
<td><img src="image" alt="House extension 1" /></td>
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<td><img src="image" alt="Key extension" /></td>
<td><img src="image" alt="Turn extension" /></td>
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XXM24/27 Turn Cylinder

<table>
<thead>
<tr>
<th>Beam</th>
<th>House extension 1</th>
<th>House extension 2</th>
<th>Plug extension 1</th>
<th>Plug extension 2</th>
<th>Key extension</th>
<th>Turn extension</th>
<th>Clutch</th>
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<tbody>
<tr>
<td><img src="image" alt="Beam" /></td>
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<td><img src="image" alt="Turn extension" /></td>
<td><img src="image" alt="Clutch" /></td>
</tr>
</tbody>
</table>
Door Key Deposit is recommended for fitting in apartment doors for minimum key administration.

Application
Recommended as a lock complement in hall and exterior doors in apartment buildings, apartment buildings for the elderly and disabled, terraced houses etc. Primarily used for temporary storage of apartment keys e.g. when the resident is not at home at the time of scheduled apartment maintenance.

Designed for doorthickness 37 mm to 97 mm. To be installed in the door due to Assa instructions. The cover is to be mounted on the inside of the Door Key Deposit. The Door Key Deposit is designed so it can be adjusted to the right doorthickness under installation.

Features
Assa Door Key Deposit is available for doorthickness of 37-97 mm.

- The deposit should be mounted in the door blade at the top corner on hinge side.
- Protection against picking and physical attack

Function
When maintenance has been agreed on and notified:

1) The resident places the apartment key in the door key deposit.

2) The maintenance person
   - Opens the door key deposit from the outside with the maintenance key.
   - Take out the apartment key from the deposit box and open the door.
   - Lock the door and return the key in the door key deposit.

3) The resident
   - Removes the key after completed maintenance from the inside of the door.

3) The resident
   - Removes the key after completed maintenance from the inside of the door.
Range
Twin Global 7688 Cylinder without keys
Twin PRO 6188 Cylinder without keys
6-pin 688 Cylinder without keys
Assa dp 4488 Cylinder without keys

Door Key Deposit without cylinder
88 Door Key Deposit, doorthickness 37-97 mm

Recommended installation position.
150 mm
65 mm
Ø47 mm

inside
outside
The Assa wall key deposit is recommended for temporary storage of building keys for e.g. emergency services.

Application
The Assa wall key deposit is designed for temporary storage of individual entrance keys to buildings alternatively integrated in designated building areas. Authorised maintenance or emergency personnel may have access to the building by using a unique maintenance key to open the deposit and take out the entrance key.

Features
In order to prevent vandalism, the wall key deposit should be installed in a concrete wall of quality K250 or higher. The key deposit is installed a minimum of 1 500 mm above ground level.

The wall key deposit must incorporate an approved Assa high security cylinder where the keys have a minimum of PATENTED key control level insuring protection against unauthorised copying.

For optimised security, the cylinder and the key of the wall key deposit should not be included in the Master Key System of the building.

The wall key deposit can be equipped with a built-in micro switch for alarm indication.

Function
Maintenance providers and emergency services are authorised to open the wall key deposit with the unique maintenance key of the building.

They use the entrance key to get access to the building and give the intended maintenance or carry out emergency operations. Afterwards, the building is locked and the maintenance key is returned to the wall key deposit.
**Protected against vandalism**
- To be used in combination with a specially designed, approved high security cylinder like Twin PRO or Twin Global.
- Protected against picking and manipulation.
- Designed primarily for mounting in concrete wall.
- Steel tube Ø 45 mm, protected against corrosion.
- Suitable accessories for mounting are e.g. expander bolt or a washer with a threaded bolt.

**Range**
- 7618 Twin Global Cylinder
- 6118 Twin PRO Cylinder
- 4418 Assa dp Cylinder

For CLIQ Function,
- add index A before catalogue number.
  At Cylinder series Assa Twin Ex; A5818
- add index B before catalogue number.
  At Cylinder series Assa dp Ex; B4418 Assa
- For complete description of all CLIQ functions see respective product information leaflet.
**Application**

Assa cam lock 7670, 6170 and 670 is a cylinder lock for installation in cabinet doors, which can be implemented in a Master Key System together with other cylinder shapes. This solution adds convenience to many installations since this gives the user possibility to open both entrance doors, office doors and for instance a postal locker by using only one key. Other areas where cam locks are perfect to install are electrical cabinets, recreation areas, schools and storage facilities in shops.

**Features**

Catches must be ordered separately. For alternative designs of catches contact your local Assa distributor. Cylindering helps to build up a distance in a thin door and support the installation. Nail plate helps to support installation so that the cylinder will not turn when installed in the door.

**Function**

Assa cam lock is fitted into cabinet doors and will be locked by a catch that is operated by the key. Assa cam lock is easily adjustable for door thickness up to 23 mm. Assa cam locks are available in different security levels depending on the need for the user:
- Twin Global 7670
- Twin PRO 6170
- 6-pin 670
- 4470
- 2470

For CLIQ Function,
- add index B before catalogue 2471.

At Cylinder series Assa dp Ex; B2471.
Assa Mini Catalogue 2006

Cam Lock 71

Dimensions

Dead bolt

01

02

05

06

68

69

71

80

109

99

Cylinder ring

Nail plate

Door preparation
Application
Assa Utility lock is used for any applications where locking is desired without being able to use regular locks or padlocks. Assa utility lock can be used for windows, patio doors and also for office furniture.

Features
The lock need to be installed in correct position depending of the door/window is opened inwards or outwards. Check the space in the window frame to ensure that it can hold the length of the screws.

Function
Assa utility lock is fitted with a push-button cylinder that is locked together when pushed into the strike plate. The technique is excellent for usage with movable items like drawers and light doors when locking possibilities is requested but not build in. The key can be retracted both in locked and unlocked position. Assa Utility lock can be combined within a Master Key System and is available within a variety of cylinder ranges.

Range
6180 Assa Twin Pro 6100 series
2480 Assa dp 2400 series
680 Assa 600 series, Restricted level
**Fitting**
Assa Window Lock has concealed fitting. The fitting screws cannot be accessed when the window is locked.

**Versions**
The window lock can be combined with Assa Twin or Assa Max cylinders. It is suitable for master keyed, keyed different and keyed alike cylinders.

**Finish**
Body and striking plate white powder lacquer (067), cylinder bright chrome (011).
Application
Locking in basements and attics of apartment buildings, internal locking of Grade 1 and 2 grilles and hatches, locking of boats under 200 kg and locking of approved bicycle chains.

Features
• Padlocks with black chrome finish and bright chrome shackle.
• Padlock body of brass.
• With water (condense) drainage holes to reduce the risk of freezing.
• Designed for alternative cylinder types.
• Shackle Ø 8 mm or 10 mm of corrosion-protected, hardened steel or brass.
• Pull resistance over 15 kN.
• Available in several shackle heights, see dimensional drawing and table on the previous page.

Function
Designed for the following cylinder series:
• 600 series
• Twin Pro 6100 series
• Twin Global 7000 series

Available with the following functions:
• Self-locking.
• Key locking.
## Padlocks Green

### Assa Twin Pro/Global

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<th>Padlocks Grade</th>
<th>Assa 600 serie</th>
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<th>High Security</th>
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Application
Interior locking of Grade 1, 2 and 3 doors, gates and hatches as well as interior locking of Grade 3 grilles, locking of motor bikes, mopeds, boats over 200 kg and boat engines.

Features
• Padlocks with black chrome finish and bright chrome shackle.
• Padlock body of hardened steel.
• With drill-protected cylinder.
• Shackle Ø 10 mm of corrosion-protected, hardened steel.
• Designed for alternative cylinder types.
• Pull resistance over 35 kN.

Function
Designed for the following cylinder series.
• 600 series.
• Twin Pro 6100 series.
• Twin Global 7000 series

Available with the following functions:
• Self-locking.
• Key locking.
## Padlocks Blue

### Assa Twin Pro/Global Measurements shackles

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Application
For exterior locking of Grade 1, 2 and 3 doors, gates, hatches and grilles.

Features
• Shackle padlocks with black chrome finish and bright chrome shackle.
• Padlock body of hardened steel.
• With water (condense) drainage holes to reduce the risk of freezing.
• With drill-protected cylinder.
• Shackle Ø 13 mm of corrosion-protected, hardened steel.
• Designed for alternative cylinder types.
• Pull resistance over 70 kN.

Function
Designed for the following cylinder series.
• 600 series.
• Twin Pro 6100 series.
• Twin Global 7000 series

Available with the following functions:
• Self-locking.
• Key locking.
## Padlocks Red

### Assa Twin Pro/Global

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Assa Lock Cleaner/De-Icer
Spray for cleaning and de-icing of lock cylinders. Ready to use after lightly shaken.

Insert the small plastic tube in to the cylinder plug and press the spray button for a few seconds.
Spray intense.
Repeat when heavily polluted.

Insert the correct key and wipe it clean. Finish by using Assa Lock Spray to lubricate the cylinder and to greatly improve the function and extend the lifetime of the lock cylinder.

- EFFECTIVE - quickly desolves dust dirt.
- DE-ICING - desolves and prevents ice.

Assa Lock Spray
Lubrication that greatly improves the function and extends the lifetime of the cylinder.
Insert the tube after lightly shaken into the cylinder and press the button for 1 second.
Insert the key and turn a few times. Wipe clean. If needed use Assa Lock Cleaner first to remove dust and ice.

- EFFECTIVE - Small quantities give quick result.
- QUICK-DRYING - Does not absorb dust and dirt.
- WATER-RESISTANT - Does not absorb salt.
- SERVICE/MAINTENANCE - Recommended twice a year.
Current maintenance greatly improves the function and extends the lifetime of the cylinder

There are many factors that affect the opening and closing of a door. Your door environment needs current service and preventative maintenance for guaranteed function. The lock unit exposes to constantly stresses. In no time the door have been closed and opened for several thousand times.

Lock Cylinder
Cleaning and lubricant of the lock cylinder is recommended at least two times a year. Use Assa Lock Cleaner and Assa Lock Spray. When door environment is exposed for highly frequent openings and closings for instance like garages or when extreme environmental issue exists are cleaning and lubrication recommended more often. One interval of cleaning and lubrication should preferably be planned before winter season to provide condensation to freeze and cause function stop.

When electronic keys are used, like Twintronic or CLIQ, the cables and contacts need to be overviewed at least once a year to provide the total function of the Master Key System.

Warning
Never use oil or graphite into lock cylinders. Grease and oil causes function stop and stick the pins and springs permanent together.

When constantly recurring function stops please contact your chosen Assa retailer to assist and countermeasure.

NOTE:
Keys that highly frequent is used abrades and should be exchanged when function is deteriorating.