Euro Profile Cylinders

ASSA ABLOY

Experience a safer
and more open world

Features and Benefits

Euro Profile Cylinder

Key features:

- 6 pins, Yale Keyway
- Can be keyed to 4 level grand master key system
- Construction master keying is not recommended
- Available lengths - 45mm, 60mm, 70mm, 80mm, 90mm,100mm
- Dimple Keying available as option (cannot be master keyed)
- C4 and Yale keyway are available, specify keyway required when ordering

Benefits:

- Versatile usage
- Key control
- Suitable for various thickness of doors

Technical details:

- Satin Nickel and Satin Brass finish available
- Suitable door thickness up to 120mm
- Each euro profile cylinder supplied with 3 keys
- Cylinders available in -
  1. Cylinder and turn
  2. Double cylinder
  3. Single cylinder
  4. Privacy cylinder

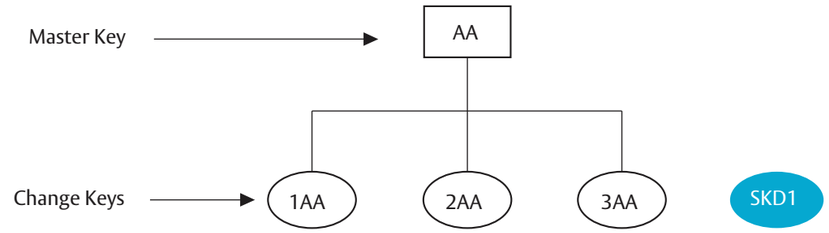
ASSA ABLOY range of euro profile fixed cam cylinders is suitable to be used with euro profile mortise lockcases.

Master Keying Level of Control

Simple Master Key System (2 Level of Keying)

The master key symbol consists of TWO letters, such as AA. The change key numbers are added to the master key letters. The numbers come FIRST: 1AA, 2AA, 3AA, etc.

When locks are required which are not operated by the master key or other change keys in the system, they are referred to as “single keyed” and given symbols SKD1, SKD2, etc. When all higher levels of master keys are to be disallowed, suffix (NMK) to the symbol of the key which is to operate. This means “not master keyed.” Cylinder 1AA (NMK) is operated by 1AA only. The AA master is blocked from operation.

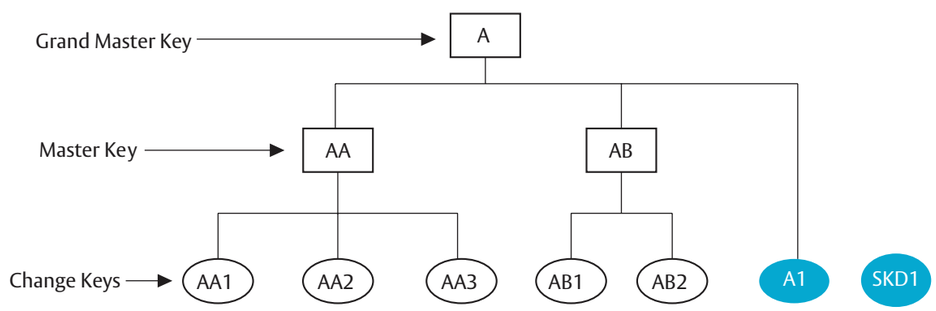


Grand Master Key System (3 Levels of Keying)

The grand master is assigned any ONE letter, such as A. The master keys under this grand are assigned TWO letters, the first of which must be the same as the grand: AA, AB, AC, etc. are all masters under grand A.
Caution: Do not use the letters I, O or Q because of possible confusion with the numerals 1 and 0, respectively. Also do not use the letter X due to confusion with cross keying. Change key numbers come after the letters. For master keys beyond AZ, insert a numeral between the letters to designate which pass through the alphabet they represent. A2A through A2Z represents the second pass of masters under grand A. A3A through A3Z would be the third. Change keys under these masters have the numbers suffixed in the usual way: A2A1, A2A50, etc.

If the cylinder is to be operated by its change key and nothing lower than the single lettered GMK, the change number is added to the GMK symbol. This is illustrated by the example A1 in the schematic shown. When locks are required which are not operated by ANY master keys or other change keys in the system, they are referred to as “single keyed” and given symbols SKD1, SKD2, etc.

When all higher levels of master keys are to be disallowed, suffix (NMK) to the symbol of the key which is to operate. This means “not master keyed” and can be applied to any level in the system. Cylinder AA1 (NMK) is operated by AA1 only. The AA master and A grand are blocked from operation. Cylinder AA (NMK) would be operated by the AA master only. Grand A does not operate.



Master Keying Level of Control

Great Grand Master Key System (4 Levels of Keying)

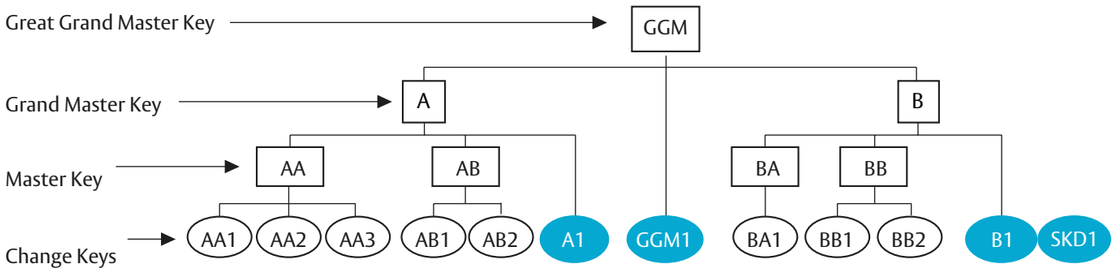
The great grand master key is assigned the symbol GGM. The rest of the symbols are the same as those in 3-level systems:
The GMKs are assigned single letters, e.g., A, B, C, D, etc. Caution: Never use X for a grand master key due to confusion.

Masters under each GMK are assigned two letters, the first of which is the same as its respective grand master key. Change key numbers come after the letters. Changes under the grand (A1, B1, etc.) and masters beyond AZ are handled exactly as in the 3-lever system already described.

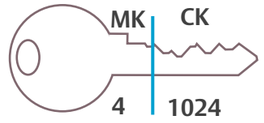
Changes directly under a grand are also handled as illustrated in the 3-level system. For changes directly under the GGM with no intermediate level masters, the change number is added directly to GGM as shown by the example GGM1 in the schematic.

When locks are required which are not operated by ANY master keys or other change keys in the system, they are referred to as "single keyed" and given symbols SKD1, SKD2, ETC.

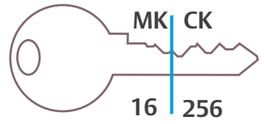
When all higher levels of master keys are to be disallowed, suffix (NMK) to the symbol of the key which is to operate. This means "not master keyed" and can be applied to any level in the system. Cylinder AA1(NMK) is operated by AA1only. The AA master, A grand and GGM are all blocked from operation. Cylinder AA(NMK) is operated by AA master only. Grand A and the GGM do not operate. Cylinder A(NMK) would be operated by the A grand only, without the GGM.



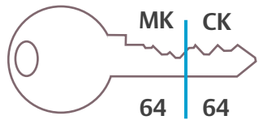
Grand Master Key System



One cut allows for 4 theoretical masters under the grand. The remaining five cuts allow for 4 X 4 X 4 X 4 X 4 X 4 = 1,024 change keys under each master.



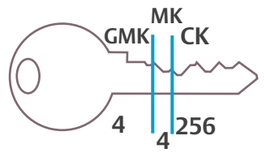
Two cuts give 4 X 4 = 16 theoretical masters under the grand. The remaining four cuts give 4 x 4 x 4 x 4 = 256 theoretical change keys under each master.



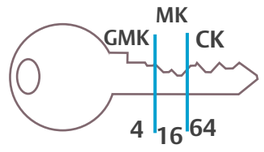
Three cuts give 4 X 4 X 4 = 64 keys at each level.

Great Grand Master Key System

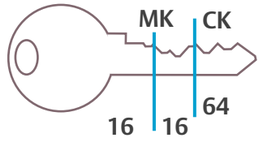
For a great grand master key system (4 levels of keying) keys will be likely divided into three piece. As we saw above, the top master is not progressed, only have to work for the three levels below the great grand. Again, there are only three possible way to divide the key, the location of the chambers devoted to each level will vary from one system to another. The examples illustrated use only one keyway. Most great grand master key systems use additional keyways in a multiple key system.



One chamber give 4 grand under the GGMK. One chamber gives 4 masters under each grand. The remaining four chambers give 4 X 4 X 4 X 4 = 256 theoretical changes under each master.

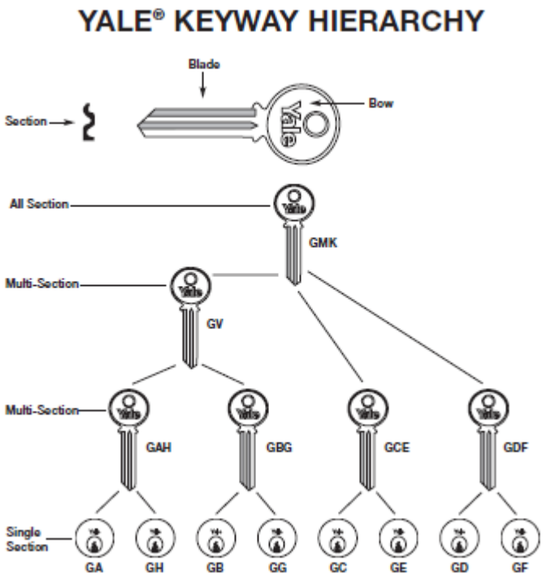


One chamber gives 4 theoretical grands under the GGMK. Two chamber gives 4 X 4 = 16 theoretical masters under each grand. The remaining three chambers give 4 X 4 X 4 = 64 theoretical changes under each master.



Two chamber used for each level give 4 X 4 = 16 theoretical combinations at each level.

The dividing lines between the cuts of the keys shown above should be considered as brick walls built to separate the levels of keying. These walls are built at the beginning of each keying system and are not movable. For instance, a 3-level system was not laid out as shown in the second illustration and use up all 16 master keys, it cannot dip into the third chamber to obtain a 17th master key. This would create key interchange. A multiplex key system with additional keyways available to get the new master key.
Specify system expansion expected with the most accurate guess at the outset new keying system in order for new combinations to be available when it is needed.



Euro Profile Cylinder

Cylinder with thumbturn

Model no.	*Cylinder length*	*Finish*
AACT30/30SNKD	Overall Length - 60mm Case Length - 30/30	Satin Nickel
AACT35/35SNKD	Overall Length - 70mm Case Length - 35/35	Satin Nickel
AACT40/40SNKD	Overall Length - 80mm Case Length - 40/40	Satin Nickel
AACT45/45SNKD	Overall Length - 90mm Case Length - 45/45	Satin Nickel
AACT50/50SNKD	Overall Length - 100mm Case Length - 50/50	Satin Nickel

Description: **Cylinder with thumbturn**
Fixed cam, 6 pin
Master keying optional
C4 and Yale keyway are available, specify keyway required when ordering

Euro Profile Cylinder

Double cylinder

Model no.	*Cylinder length*	*Finish*
AADC30/30SNKD	Overall Length - 60mm Case Length - 30/30	Satin Nickel
AADC35/35SNKD	Overall Length - 70mm Case Length - 35/35	Satin Nickel
AADC40/40SNKD	Overall Length - 80mm Case Length - 40/40	Satin Nickel
AADC45/45SNKD	Overall Length - 90mm Case Length - 45/45	Satin Nickel
AADC50/50SNKD	Overall Length - 100mm Case Length - 50/50	Satin Nickel

Description: **Double Cylinder**
Fixed cam, 6 pin
Master keying optional
C4 and Yale keyway are available, specify keyway required when ordering

Euro Profile Cylinder

Half cylinder

Model no.	*Cylinder length*	*Finish*
AA C/40	Overall Length - 40mm Case Length - 30/10	Satin Nickel
AA C/45	Overall Length - 45mm Case Length - 35/10	Satin Nickel

Description: 6 pin single cylinder, fixed cam,
Master keying optional
C4 and Yale keyway are available, specify keyway required when ordering

Cylinders - Euro Profile

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Euro Profile Cylinder

Privacy cylinder

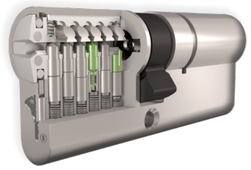
Model no.	Cylinder length	Finish
AA BT/30/30	Overall Length 60mm Case Length - 30/30	Satin Nickel
AA BT/35/35	Overall Length - 70mm Case Length - 35/35	Satin Nickel

Description: **Privacy Cylinder**
Fixed cam, 6 pin
Master keying optional
C4 and Yale keyway are available, specify keyway required when ordering

MTL ™800

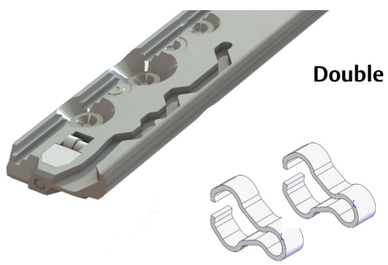
- Long IP protection until 2039
- Integration of an up to date solution in existing systems
- Numerous existing suits
- Keep balanced budget enabling gradual transition

HIP



Double Alfa Spring

- New key blank with a double Alfa spring
- New plugs
- New Alfa plug pin



Double Alfa Spring

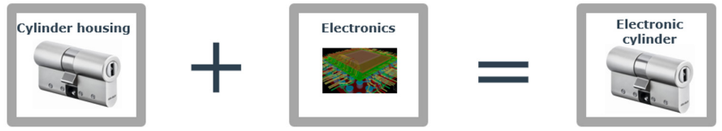
eCLIQ

ASSA ABLOY

HIP

What is CLIQ technology?

- CLIQ is a technology developed by the ASSA ABLOY Group
- CLIQ unites and optimises the features of mechanics and electronics
- The ideal electronic Master Key System solution without any cables
- eCLIQ purely electronic solutions offers higher security and more flexibility than any other traditional locking system



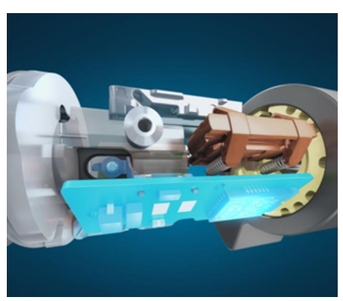
The main system components

eCLIQ - The next generation of locking systems

- Unique, innovation based on the proven ASSA ABLOY CLIQTM technology
- A purely electronic, innovative locking cylinder technology for maximum systemflexibility
- Extremely compact and secure locking cylinders, allows for a wide range of cylinder type applications
- A reversible key with a new striking design
- The latest generation of chip technology
  - High encoding efficiency
  - High processing speed
  - Efficient energy management
  - High security, 128 bit AES encryption
- ECLIQ: secure, quick, powerful, energy-efficient

eCLIQ - Automatic cylinder lubrication

- Innovative integrated lubricant depot
- Automatic cylinder lubrication (cylinder will be lubricated each time key is inserted and turned)
- Maintenance free electronic cylinder up to 200,000 cycles



eCLIQ - The next generation of locking systems

- Integrated memory chip
- Key-unique and locking system encryption - AES 128
- Optional enhanced drilling protection
- Optional dust and rain protection cap, IP55
- Emergency mechanism with user key
- Several free rotation angles (optional)
- Temperature range -25°C/+85°C
- Compiles with the latest;
  - EN 15684:2013-2 Standard
  - VdS 2156-2 Guideline

eCLIQ - Standards and compliance

- Complies to the latest DIN EN standard and VdS guideline
- Requirements and test methods: Mechatronic locking cylinders

DIN EN 15684: 2013_01

- New standard for mechatronic locking cylinders
- Published February 2013

VdS 2156-2en

- Guideline for Physical Security Devices
- Updated guideline
- Valid from June 2013

- eCLIQ is the first electronic cylinder solution which complies with the latest version of DIN EN and VdS standard

eCLIQ - Highlights of the new EN/VDS standard

DIN EN-15684:2013-01 Standard

- Shock/vibration tests
- ESD tests (Electro Static Discharge test)
- Temperature and environmental tests
- IP protection class tests (dust/water)
- Tested with increased voltage
- Tested with permanent magnet
- Fire test
- To be supplied with extensive user manuals

EN 15684
EUROPEAN STANDARD

cen
EUROPEAN COMMITTEE FOR STANDARDIZATION

PIVCERT

VdS

VdS 2156-2 Guideline

- Test permanent load up to 200,000 cylces
- Class C = highest performance
- Application of guideline is optional

eCLIQ - ATEX certified

- EC-Type Examination Certificate (according to Directive 94/9/EC, Annex III)
- Equipment and Protective Systems intended for use in Potentially Explosive Atmospheres, Directive 94/9/EC
- EC-Type Examination Certificate Number: IBExU14ATEX1125
- Equipment: Locking System
  Type eCLIQ
- Manufacturer: ASSA ABLOY Sicherheistechnik GmbH
- Address: Goerzallee 299
  14167 Berlin
  Germany

Ex

ATEX certificate