

# Cylinders catalogue 2008



# Summary

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## For greater security choose a patented key system

### The risk: uncontrolled key reproduction

Nowadays duplicating a key is simplicity itself with most systems. Anyone can go to a key cutting service and have a key duplicated anonymously; and it might be the key to the apartment you are selling or the key to your office, etc. Such simple and uncontrolled key duplications can be taken to excess, jeopardising the security of many premises.



### The solution: patented key systems with controlled key duplication

To offset this drawback Vachette introduced patented key systems. Only the manufacturer can make a copy of this type of key, and only on presentation of two codes: the code on the key itself, and the code on the registration card or security certificate. Both secret codes have to match before key duplication can proceed, which means that no-one can duplicate the key to your apartment or office without your consent.

In a world where security is the overriding factor, patented key systems are a genuine commitment to security for end-users. And that is why these systems are proving extremely popular among both individuals and companies.

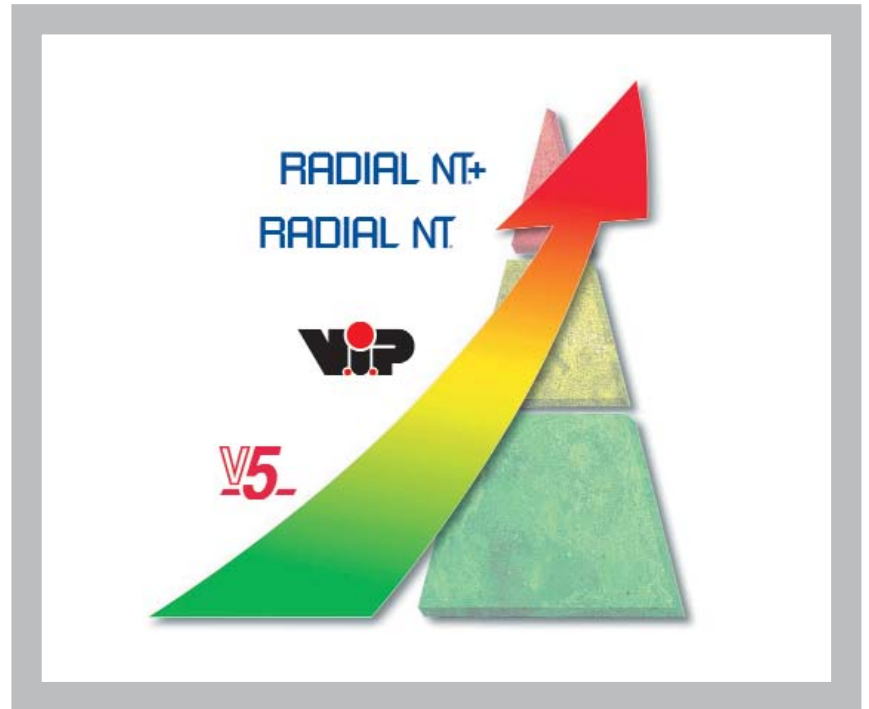
### Vachette – increasingly sophisticated patents

Vachette's three patented key systems – VIP and RADIAL – are the result of a continual quest to improve security. RADIAL offers one of the most recent patents in the market place, with a guarantee against unauthorised key duplication until 2019. It is characterised by a triple active mobile, a huge leap forward in terms of protection against uncontrolled copies and also a remarkable technological innovation.

Many products are being marketed today with a cylinder card; these are not, however, patented products. In fact the card merely facilitates duplication and provides no guarantee of additional security whatsoever.



## A Vachette cylinder for each security level



## Choosing the right cylinder

	RESIDENTIAL SECTOR			
	DETACHED PROPERTIES	APARTMENTS		
		STANDARD	HIGH QUALITY	DE LUXE
V5	●	●		
VIP	●	●	●	●
RADIAL NT	●		●	●
RADIAL NT+	●		●	●

	SERVICE SECTOR						
	OFFICE INDUSTRY	INDUSTRY SHOPPING	LOCAL CENTRES	AUTHORITIES	HOSPITALS	SPORT	HOTEL
V5	●	●	●	●		●	●
VIP	●	●	●	●	●	●	●
RADIAL NT	●	●	●	●	●	●	●
RADIAL NT+	●	●	●	●	●	●	●

● Potentially suitable    ● Suitable    ● Ideally suitable

## For the residential sector opt for adapted products

Vachette offers specific solutions for both new and renovated properties, with products tried-and-tested and well received by end-users:

### Emergency Key function, for greater convenience

The Emergency Key allows you to unlock the door, even if the key has been left inserted in the lock on the inside.

### A2P label for more security

To improve the security of your home we recommend the use of A2P kite-marked cylinder and lock units.

They have been tested under extreme conditions and guarantee a better resistance against forced entry.



### The A2P label: synonymous with resistance to forced entry and burglary



It is of the utmost importance to opt for a locking system with the A2P “Building Lock” label. This quality label is available to all manufacturers, and is granted by an official certification organisation recognised by Insurance professionals, the National Centre for Prevention and Protection [CNPP Certification].

The A2P label is awarded by an allocation committee made up of manufacturers, distributors, end-users, representatives of public authorities and bodies or personalities appointed for their respective areas of competence.

A2P: 1 label, 3 security levels

The table below shows a comparison of some of the many criteria laboratory tested by professionals for the award of 1, 2 or 3 star classification.

Minimum resistance time to attempts at forced entry [cylinder-related]	Label *	Label **	Label ***
Non-destructive opening by tampering, picking, etc.	5 mins	10 mins	15 mins
Destructive opening by drilling the lock case, forcing the bolt and completely sawing off the bolt(s) activated by the central lock	5 mins	10 mins	15 mins
Destructive opening by fusing materials	-	10 mins	15 mins
Force applied for wrenching off the lock-case	400 daN [kg]	700 daN [kg]	900 daN [kg]
Compulsory sealed packaging concealing the key and making it inaccessible except by visibly tearing the packaging open			

## For the service sector [offices, hospitals, local authorities, etc.] Finding the right answers



We offer a wide range of solutions ideally adapted to all your requirements for projects in the service sector [sports facilities, offices, retail outlets, etc.]

### Masterkey schedules for more convenience and ease

The hierarchical structures of MK (masterkey) or GMK (general masterkey plus sub-masterkeys) schedules allow you to organise access rights to your premises. Vachette's specialists will assist you in drawing up your very own schedule so that each person only has access to the premises he or she is authorised to enter.

### A single key

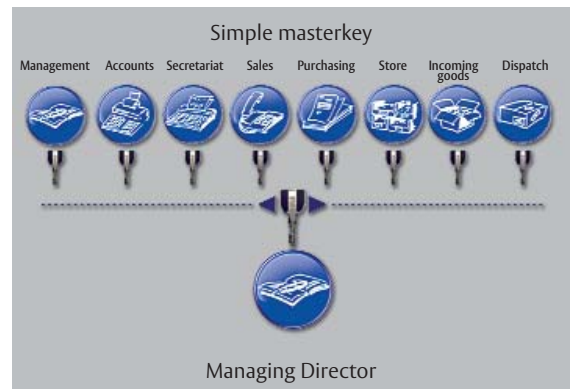
We recommend that you adopt the concept of a single key: it reduces the number of keys on your key ring, which makes for greater user convenience. And it means you can unlock all the doors of your home with one and the same key [entrance door, gate, garage door, cellar, etc.]

### Common entrance

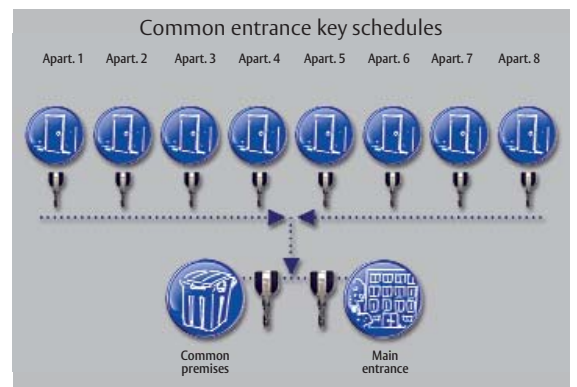
Common entrance key schedules are used for blocks of flats. They consist of cylinders for common entrance doors that can be opened by all the tenants, with identical cylinder types on the apartment doors, cellar doors and letter-boxes.



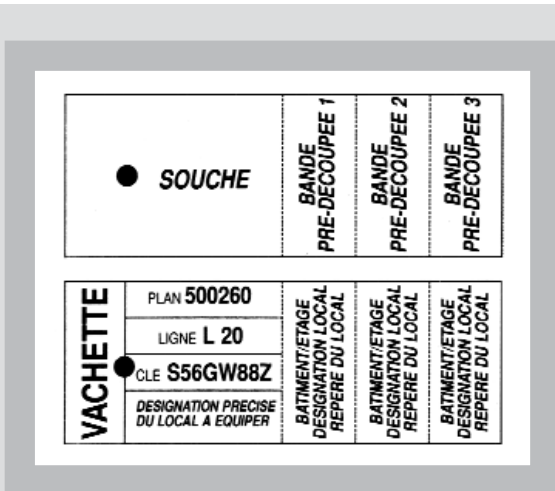
*While each Operations Director has a specific sub-masterkey giving him access to all the premises within his department, only the Managing Director's general masterkey allows access to all the offices and premises within the company.*



*Each workshop or office has its own individual differ key but the Managing Director has access to all the premises with his specific masterkey. This system is also often used for individual housing as well as hotels and public administration buildings.*



*Each apartment can only be opened by the owner's or tenant's key, which also provides access to all the common premises: main entrance to the building, car park, cellars, bicycle sheds, etc.*

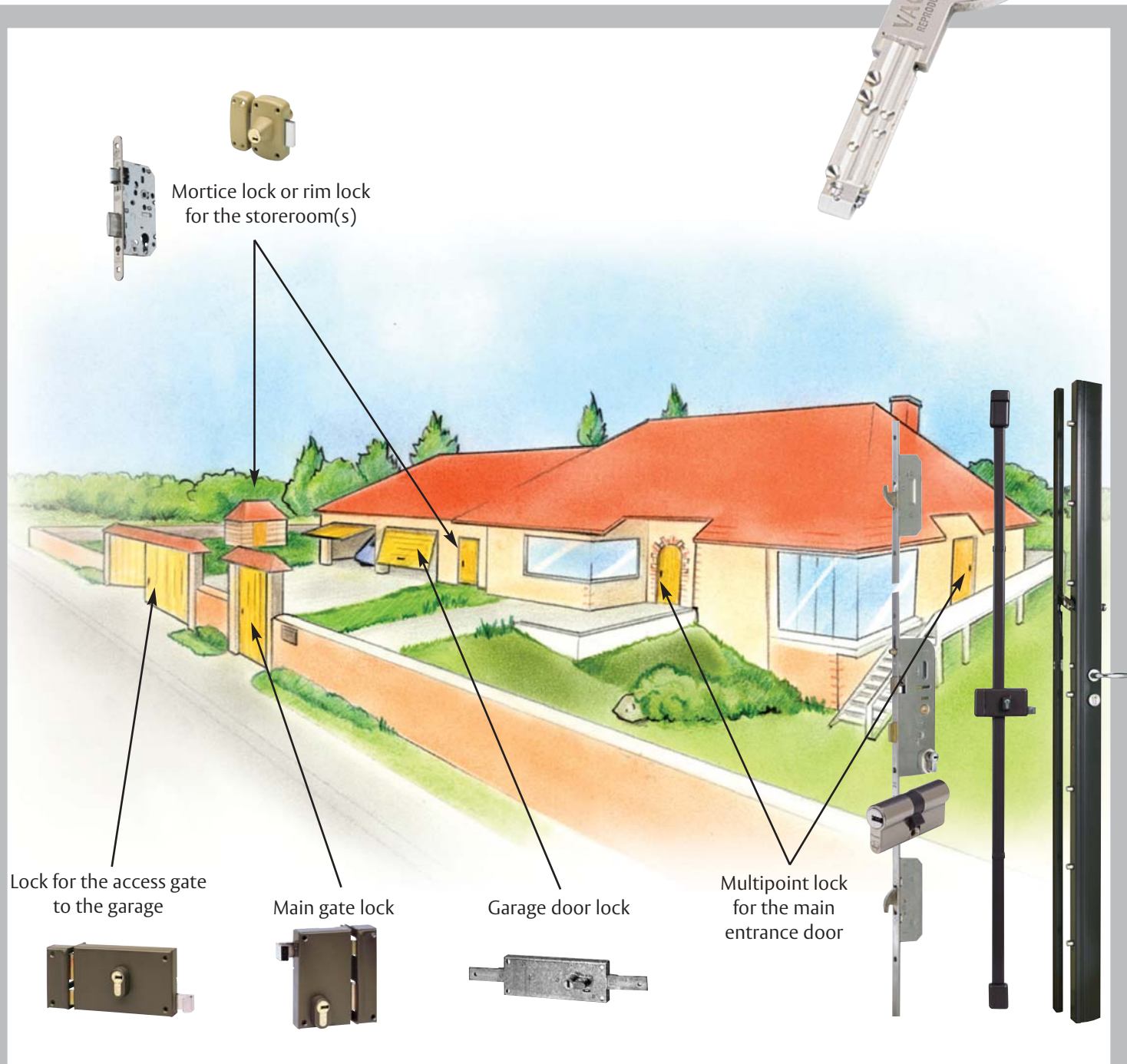


### Systems easier to install

To facilitate implementation, all Vachette masterkey schedules are supplied with a paper copy of the masterkey plan; what's more the packaging follows the order of the schedule drawn up. When it comes to implementing the masterkey schedule you can prepare the installation by having the masterkey plan established in precisely the order you want for the on-site fitting. Perforated, self-adhesive labels make it even easier to implement the masterkey installation.

## The same key

unlocks all the doors of your principal and secondary residence as well as your office

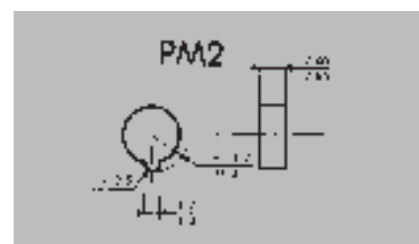
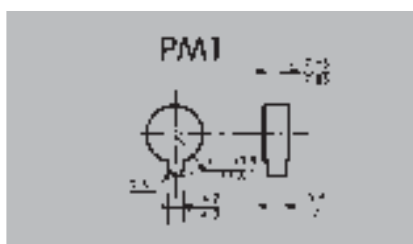
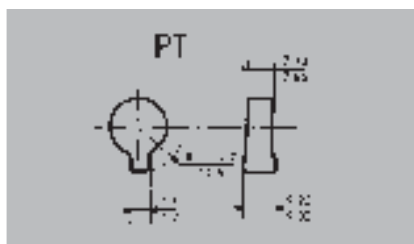
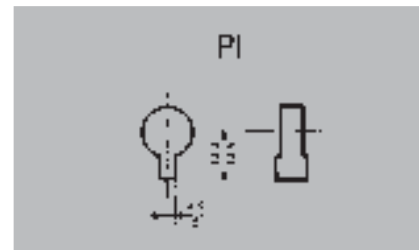
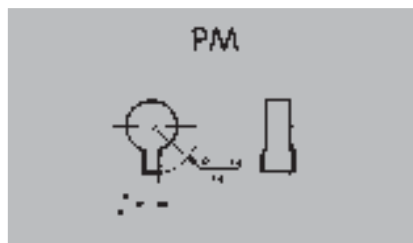
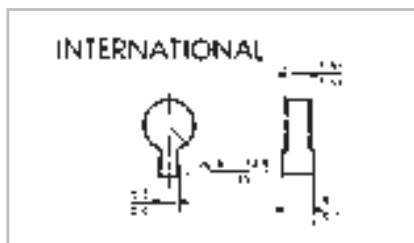


### Ingenious concepts for greater convenience

The single key concept is available with different key systems and security levels



## Special cam types

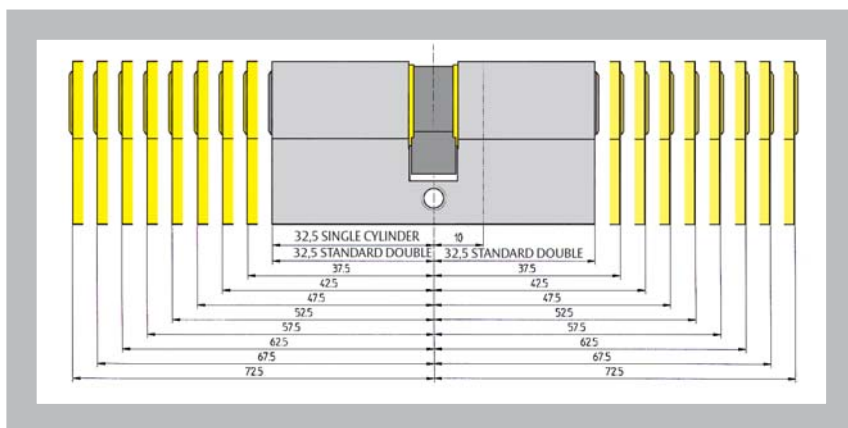


## Extended Europrofile cylinders

### Radial NT+ / NT system

It is not necessary to specify the handing for double cylinders with asymmetrical extension or for single cylinders as long as they are intended for VACHETTE locks; however the handing information is required if the cylinders are fitted to locks of other makes.

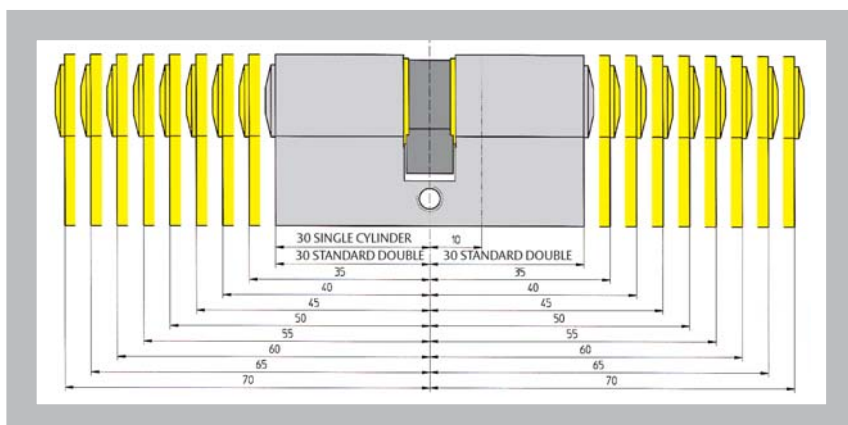
**When ordering asymmetrically extended cylinders, please always specify the outer dimension first.**



### VIP, V5 systems

It is not necessary to specify the handing for double cylinders with asymmetrical extension or for single cylinders as long as they are intended for VACHETTE locks; however the handing information is required if the cylinders are fitted to locks of other makes.

**When ordering asymmetrically extended cylinders, please always specify the outer dimension first.**



## Vachette's Ultimate security cylinder

The RADIAL NT and NT+ system represents the state of the art in mechanical security today. With its multidirectional pinning technology, the RADIAL flat key system offers ultimate protection against unauthorized key duplication. It also allows complex masterkey schedules.

### ADVICE

To guarantee your system's long service life we recommend the use of Vachette lubricant.  
Ref. 775 or 775 GM

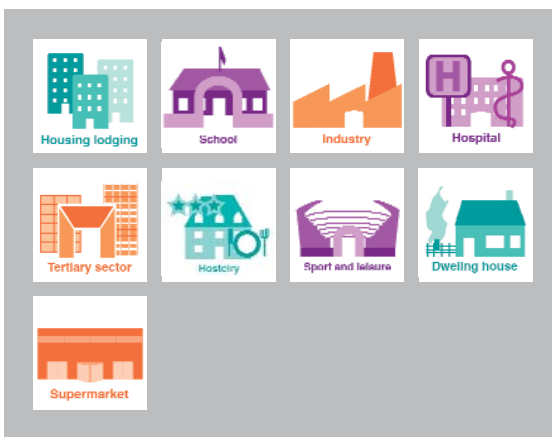


## Applications

### A dual purpose range: residential and non-residential

The RADIAL system can be used in non-residential sites such as offices, hospitals, public-sector administration buildings, etc. Indeed its range of masterkey schedules is particularly well suited to these types of premises.

In its A2P version, however, it is particularly well adapted to ensuring the security of homes, not just in blocks of flats but also in detached properties. Together with an A2P kite-marked lock it offers peace of mind to home owners and tenants alike.



## Technical datas

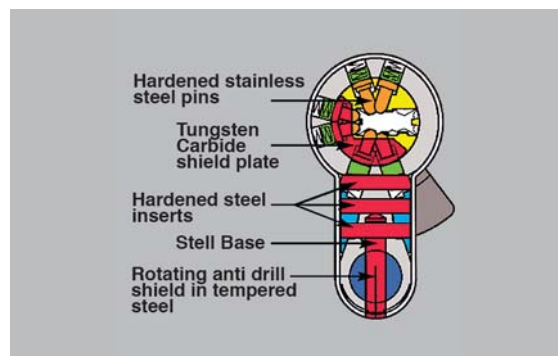


### RADIAL NT+ / NT characteristics

- Flat key with international potent on 4 to 6 rows
- 13 to 32 pin system
- One billion differs
- Hardened Steel base, breakage resistant
- Transverse sliding pin with triple recognition system
- Key section: 3.3 mm, Material: Nickel Silver
- Torsion resistance: 10 Nm
- Minimum dimensions:
  - Double cylinder 32.5 x 32.5 mm [Extension in steps of 5 mm up to 72,5 x 72,5mm]
  - Single cylinder 32.5 x 10 mm [Extension in steps of 5 mm up to 72,5 x 10mm]

### RADIAL NT+ additional Anti-burglary characteristics

- Tungsten carbide protection shield
- Anti-drill inserts



## Special features



### PATENTED KEY\*

- Supplied with key registration card or security certificate

### SYSTEM REINFORCED

- By a breakage-resistant steel base

### RADIAL NT+ A2P FOR DIFFER CYLINDERS AND CYLINDERS IN MASTER-KEY SCHEDULES

- Subject to the use of all approved (kite-marked) accessories, locks and strike plates

System protected by RADIAL patent valid until 2019 PCT / W099 / 49161



Patented sliding pin system



User friendly key bow



### High security Europrofile double cylinders

A2P\*<sup>(1)</sup> cylinder. 3 keys  
Minimum dimension: 32.5 x 32.5 mm

#### Nickel plated / stainless steel (on masterkey schedules only)

Ref. 7101 NT+ N1  
For use with Vachette locks A2P\*  
Ref. 7101 NT+ N2  
For use with Vachette locks A2P\*\*  
Ref. 7101 NT+ N3  
For use with Vachette locks A2P\*\*\*

#### Stainless steel with gold finish (on masterkey schedules only)

Ref. 7100 NT+ N1  
For use with Vachette locks A2P\*  
Ref. 7100 NT+ N2  
For use with Vachette locks A2P\*\*  
Ref. 7100 NT+ N3  
For use with Vachette locks A2P\*\*\*

#### Two-tone finish (differ cylinders only)

Ref. 7101 NT+ N1  
For use with Vachette locks A2P\*  
Ref. 7101 NT+ N2  
For use with Vachette locks A2P\*\*  
Ref. 7101 NT+ N3  
For use with Vachette locks A2P\*\*\*



### Europrofile double cylinders

Double cylinder, 3 keys  
Minimum dimension:  
32.5 x 32.5 mm

#### Nickel plated / stainless steel (in masterkey schedules only)

Ref. 7101 NT+  
Ref. 7101 NT

#### Stainless steel with gold finish (in masterkey schedules only)

Ref. 7100 NT+  
Ref. 7100 NT

#### Two-tone finish (differ cylinders only)

Ref. 7101 NT+  
Ref. 7101 NT



### Europrofile double cylinders with emergency key function

Double cylinder with emergency key function, characterised by nickel-plated cam. This function allows a door to be unlocked from either side even if a key is still inserted on the other side. 3 keys.  
Minimum dimension: 32.5 x 32.5 mm

#### Nickel plated / stainless steel (in masterkey schedules only)

Ref. FCS 7101 NT+  
Ref. FCS 7101 NT

#### Stainless steel with gold finish (on masterkey schedules only)

Ref. FCS 7100 NT+  
Ref. FCS 7100 NT

#### Two-tone finish (differ cylinders only)

Ref. FCS 7101 NT+  
Ref. FCS 7101 NT

<sup>(1)</sup> FOR A2P LABELLED PRODUCT :

A2P labelled product must be installed with all accessories listed in our catalogue. The A2P certification applies only for products installed as a set as described in the following pages.



### Europrofile double cylinders with thumbturn

Cylinder with ergonomic thumbturn for installation on all door types.

3 keys  
Minimum dimension:  
32.5 x 32.5 mm

**Nickel plated / stainless steel (on masterkey schedules only)**

Ref. 3111 NT+  
Ref. 3111 NT

**Stainless steel with gold finish (on masterkey schedules only)**

Ref. 3110 NT+  
Ref. 3110 NT

**Two-tone finish (differ cylinders only)**

Ref. 3111 NT+  
Ref. 3111 NT



### Europrofile double cylinders with disengaging thumbturn

Cylinder with thumbturn allowing the door to be unlocked by key even if the thumbturn is being held and/or blocked by someone on the inside.

3 keys  
Minimum dimension:  
32.5 x 32.5 mm.  
Maximum length  
on thumbturn side:  
42.5 mm

**Nickel plated / stainless steel (on masterkey schedules only)**

Ref. DEB 3111 NT+  
Ref. DEB 3111 NT

**Stainless steel with gold finish (on masterkey schedules only)**

Ref. DEB 3110 NT+  
Ref. DEB 3110 NT

**Two-tone finish (differ cylinders only)**

Ref. DEB 3111 NT+  
Ref. DEB 3111 NT



### High security Europrofile single cylinders

Single cylinder WITH ADJUSTABLE CAM A2P<sup>(1)</sup>. 3 keys  
Minimum dimension: 32.5 x 10 mm

**Nickel plated / stainless steel (on masterkey schedules only)**

Ref. 5101 NT+ N1  
For use with Vachette locks A2P\*  
Ref. 5101 NT+ N2  
For use with Vachette locks A2P\*\*  
Ref. 5101 NT+ N3  
For use with Vachette locks A2P\*\*\*

**Stainless steel with gold finish (on masterkey schedules only)**

Ref. 5100 NT+ N1  
For use with Vachette locks A2P\*  
Ref. 5100 NT+ N2  
For use with Vachette locks A2P\*\*  
Ref. 5100 NT+ N3  
For use with Vachette locks A2P\*\*\*

**Two-tone finish (differ cylinders only)**

Ref. 5101 NT+ N1  
For use with Vachette locks A2P\*  
Ref. 5101 NT+ N2  
For use with Vachette locks A2P\*\*  
Ref. 5101 NT+ N3  
For use with Vachette locks A2P\*\*\*



### Single Europrofile cylinders

Single cylinder WITH ADJUSTABLE CAM. 3 keys  
Minimum dimension:  
32.5 x 10 mm

**Nickel plated / stainless steel (on masterkey schedules only)**

Ref. 5101 NT+  
Ref. 5101 NT

**Stainless steel with gold finish (on masterkey schedules only)**

Ref. 5100 NT+  
Ref. 5100 NT

**Two-tone finish (differ cylinders only)**

Ref. 5101 NT+  
Ref. 5101 NT



### ANSI mortise cylinder

#### Nickel plated

Ref. 8101 NT  
ANSI mortise cylinder 1 1/4" with 13 to 32 multidirectional pins, 3 nickel silver keys, nickel plated. Other dimensions upon request



### Extensible cylinder

#### Nickel plated

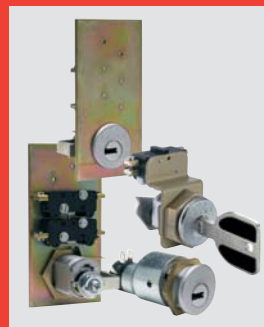
Ref. V55 NT  
Satin nickel-plated cylinder, 27 mm, 13 to 32, 3 German silver keys, brass finish P or chrome finish M



### Cylinder cam lock

Ref. 5166 NT  
3 keys, cam F or K or N, Nickel

Ref. 5166 P NT  
3 clés, batteuse F ou K ou N, brass finish



### Cylinder switch locks

Ref. V56 NT  
For electrically operated door opening systems. Brass cylinder 25 mm, length 28 mm, 13 to 32, 3 German silver keys, brass finish P or chrome finish M

Ref. V57 M NT  
For electrically operated door opening systems. Brass cylinder 25 mm, length 66 mm, 13 to 32, 3 German silver keys, 1 micro-switch, chrome finish M

Ref. V555 NT  
For main entrance doors to buildings. Brass cylinder, 13 to 32, 1 micro-switch, 3 German silver keys, chrome finish M

<sup>(1)</sup> FOR A2P LABELLED PRODUCT :  
A2P labelled product must be installed with all accessories listed in our catalogue. The A2P certification applies only for products installed as a set as described in the following pages.

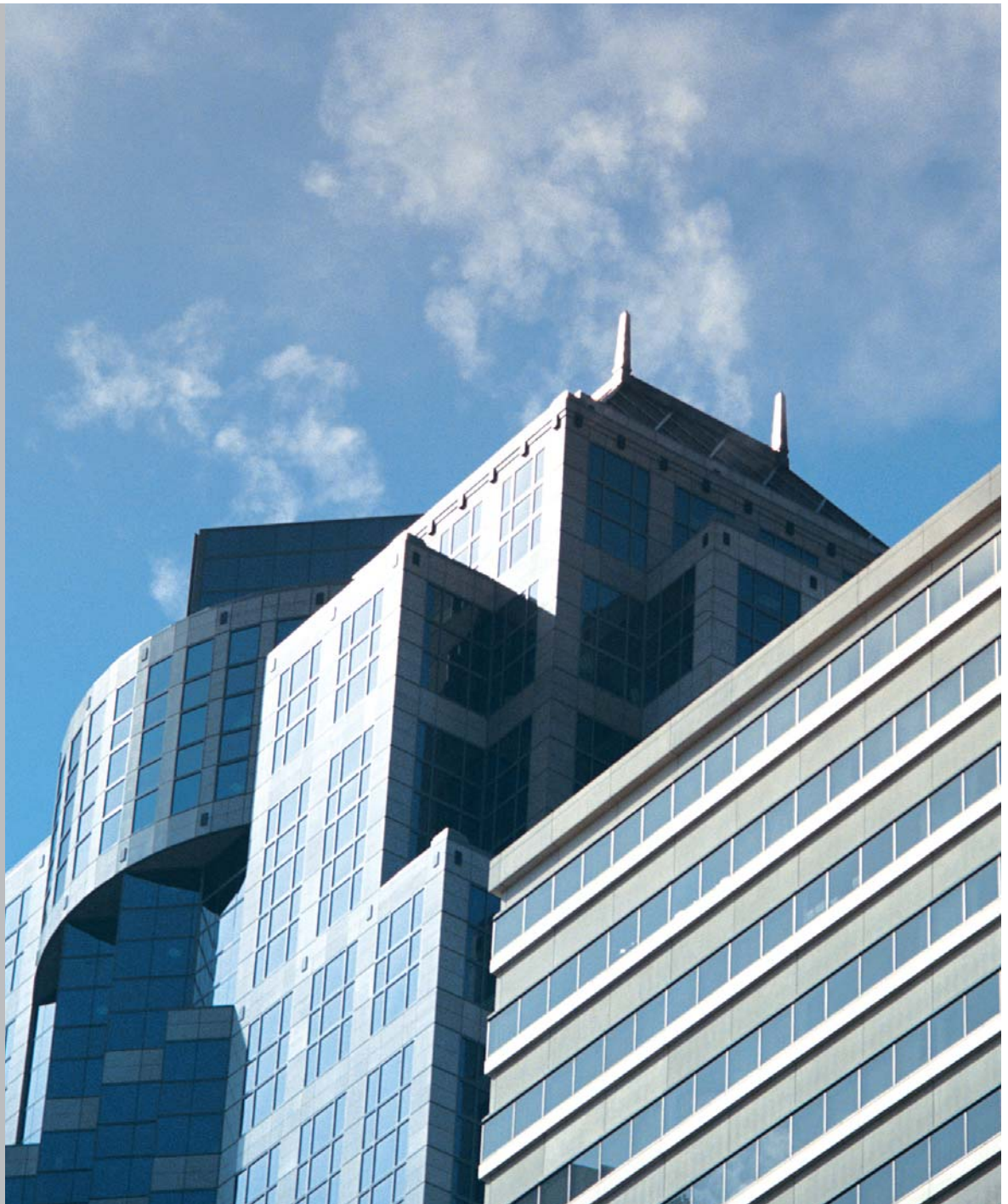


## Vachette's Optimum security cylinder

With its two-directional pinning technology the VIP system offers protection against unauthorised key-duplication. It also allows complex masterkey schedules

### ADVICE

To guarantee your system's long service life we recommend the use of Vachette lubricant.  
Ref. 775 or 775 GM



## Applications

### A solution for resolving masterkey schedules in the non-residential sector

The VIP system offers an interesting capacity for masterkey systems. An A2P version for housing. With its high security level the VIP system qualifies for the A2P\* label if used with kite-marked Vachette locks and strike plates.



## Technical datas



- Two-directional pinning system
  - 14 to 23 pins on 4 to 5 rows
  - mushroom" (anti picking) type pins
  - Stainless Steel passive pins anti-pick profile
  - N1 version with anti-drilling hardened steel pins
- Key section: 3 mm, material Nickel silver
- Torsion resistance: 10 Nm
- Over 32 million differs
- Housing: one-piece, in solid nickel-plated brass
- Plug: solid nickel-plated brass, grooved dome head for easier key insertion and improved resistance against twisting the key as well as picking
- Minimum dimensions:
  - Double cylinder 30 x 30 mm [Extension in steps of 5 mm up to 70 x 70mm]
  - Single cylinder 30 x 10 mm [Extension in steps of 5 mm up to 70 x 10mm]

## Special features

Garantie  
**10 ans**

### PATENTED KEY\*

- Supplied with key registration card or security certificate
- Even for main apartment entrance doors [A2P cylinder] with a [non-A2P] common entrance

*\*System is protected by patent valid until 2013 W094/28273*

### VIP A2P

- Subject to the use of all approved (kite-marked) accessories, locks and strike plates
- Very high anti-pick resistance





### Europrofile double cylinder

Double cylinder. 3 keys  
Minimum dimension: 30 x 30 mm

**Nickel plated**  
Ref. 7101 VIP



### Europrofile double cylinder with thumbturn

Cylinder with ergonomic thumbturn for installation on all door types. 3 keys  
Minimum dimension: 30 x 30 mm

**Nickel plated**  
Ref. 3111 VIP



### Single Europrofile cylinder

Single cylinder with adjustable cam. 3 keys  
Minimum dimension: 30 x 10 mm

**Nickel plated**  
Ref. 5101 VIP



### Europrofile double cylinder with emergency key function

Double cylinder with emergency key function, characterised by nickel-plated cam. This function allows a door to be unlocked from either side even if a key is still inserted on the other side. 3 keys.  
Minimum dimension: 30 x 30 mm up to 70 x 70 mm

**Nickel plated**  
Ref. FCS 7101 VIP



### High security anti-drill Europrofile double cylinder

Cylinder A2P<sup>(1)</sup>.  
Double cylinder with anti-drill inserts. 3 keys  
Minimum dimension: 30 x 30 mm

**Nickel plated**  
Ref. 7101 VIP N1  
For use with Vachette locks A2P\*



### High security anti-drilling Europrofile single cylinder

Cylinder A2P<sup>(1)</sup>. Single cylinder with adjustable cam. 3 keys  
Minimum dimension: 30 x 10 mm

**Nickel plated**  
Ref. 5101 VIP N1  
For use with Vachette locks A2P\*

<sup>(1)</sup> FOR A2P LABELLED PRODUCT :  
A2P labelled product must be installed with all accessories listed in our catalogue. The A2P certification applies only for products installed as a set as described in the following pages.



**Cylinder cam lock**

Nickel plated

Ref. 5166 VIP

3 keys, cam F, K or N



**Cylinder switch lock**

Nickel plated

Ref. V555 VIP

For main entrance doors to buildings, 1 micro-switch, 3 keys

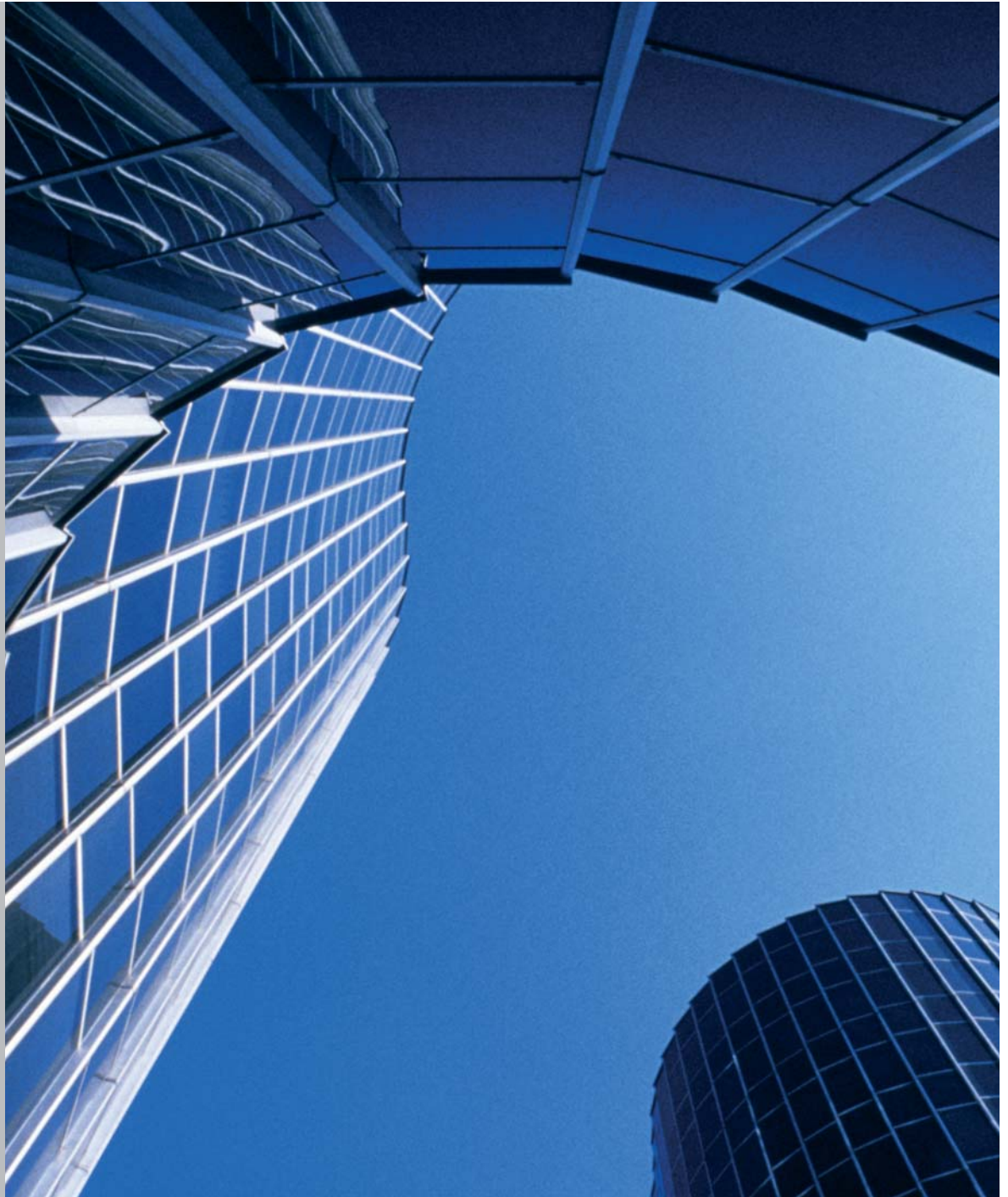
### Vachette's Classic Security cylinder

With its 5 mushroom shaped pins in line technology, the V5 System offers good protection against picking.

The extensive number of key profile allows very complex masterkey schedule.

#### ADVICE

To guarantee your system's long service life we recommend the use of Vachette lubricant.  
Ref. 775 or 775 GM



## Applications

### A well adapted concept

The V5 system has been designed particularly for office premises and private properties that require hierarchical locking structures.



## Technical datas



- 5 “mushroom” type anti-pick pins, in line
- 3 numbered keys
  - in steel (differ cylinders), 2.2 mm cross section
  - in German silver (masterkeyed cylinders), 2.7 mm cross section, 8Nm torque resistance.
- housing: one-piece, solid brass
- 15,000 differs
- HS version with anti-drilling hardened steel pins
- Plug:
  - dome head for easier key insertion and improved resistance against twisting the key.
  - Presence of a groove to hold the key shoulder, improving the resistance to twisting
- Dimensions:
  - Double cylinder 30 x 30 mm [Extension in steps of 5 mm up to 70 x 70 mm]
  - Single cylinder 30 x 10 mm [Extension in steps of 5 mm up to 70 x 10 mm]

## Special features

Garantie  
**10 ans**

- Anti-pick pins
- Compatible with all types of masterkey schedules
- Ergonomic key





### Europrofile double cylinders

Double cylinder. 3 keys  
Minimum dimension:  
30 x 30 mm

**Nickel plated**

Ref. 7101

**Brass finish**

Ref. 7100



### Europrofile double cylinder with thumbturn

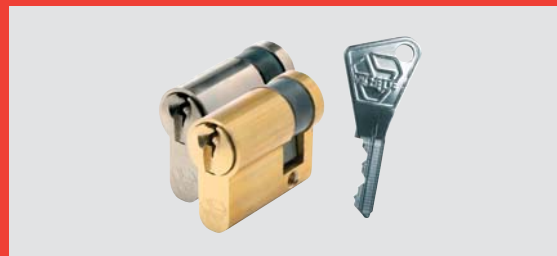
Cylinder with ergonomic thumbturn for installation on all door types. 3 keys  
Minimum dimension: 30 x 30 mm

**Nickel plated**

Ref. 3111

**Brass finish**

Ref. 3110



### Single Europrofile cylinders

Single cylinder WITH ADJUSTABLE CAM. 3 keys  
Minimum dimension: 30 x 10 mm

**Nickel plated**

Ref. 5101

**Brass finish**

Ref. 5100



### High security anti-drill Europrofile double cylinder

Double cylinder with anti-drill inserts for better resistance against forced entry. 3 keys  
Minimum dimension: 30 x 30 mm

**Nickel plated**

Ref. 7101 HS



### Europrofile double cylinders with emergency key function

Double cylinder with emergency key function, characterised by nickel-plated cam. This function allows a door to be unlocked from either side even if a key is still inserted on the other side. 3 keys.  
Minimum dimension: 30 x 30 mm

**Nickel plated**

Ref. FCS 7101

**Brass finish**

Ref. FCS 7100



### Extensible cylinder

#### Brass finish

Ref. V55

Satin nickel-plated cylinder, 27 mm, 5 pins, 3 German silver keys, brass finish P or chrome finish M



### Cylinder switch locks

Ref. V56

For electrically operated door opening systems. Brass cylinder 25 mm, length 28 mm, 5 pins, 3 German silver keys, brass finish P

Ref. V57 M

For electrically operated door opening systems. Brass cylinder 25 mm, length 66 mm, 5 pins, 3 German silver keys, 1 micro-switch, chrome finish M

Ref. V555

For main entrance doors to buildings. Brass cylinder, satin chrome finish, 5 pins, 1 micro-switch, 3 German silver keys, chrome finish



### Cylinder cam lock

#### Brass finish

Ref. 5166 M

3 keys, cam F or K or N

Ref. 5166 P

TEXTE ANGLAIS MANQUANT (3 clés, batteuse F ou K ou N, finition laiton)

## The first level of Vachette's Security cylinder

A standard 5 pins system that offers the Vachette design and reliability.

### ADVICE

To guarantee your system's long service life we recommend the use of Vachette lubricant.

Ref. 775  
or 775 GM



## Applications

### A security system particularly adapted for the residential sectors

The E5 system is designed for individual or collective residential installations.  
Only for key differ cylinders.



## Technical datas



- 5 pins system
- Dome headed plug with groove for easy key insertion.
- Key shoulder guidance for higher resistance to twisting
- Nickel plated brass key
- Supplied with 3 keys
- Double cylinder 30x30 mm and 35x35 mm
- Double cylinder with thumbturn 30x30 mm and 35x35 mm
- Single cylinder 30x10 mm and 35x10 mm

## Special features

- Easy key insertion
- Resistance to twisting



### Europrofile double cylinder with thumbturn

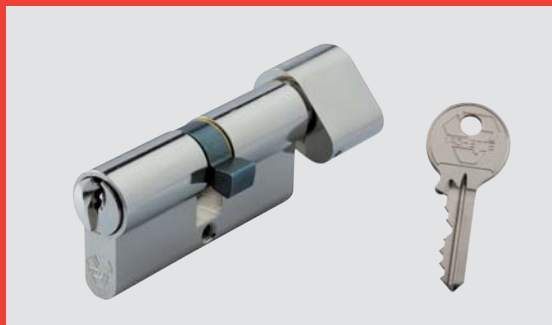
Cylinder with thumbturn for installation on all door types. 3 keys  
Dimension : 30 x 30 mm and 35 x 35 mm

**Nickel plated**

Ref. E5 3001

**Brass finish**

Ref. E5 3000



### Europrofile privacy function double cylinders

Double cylinder with thumbturn. Privacy function.  
Dimension : 30 x 30 mm and 35 x 35 mm

**Nickel plated**

Ref. E5 3001 PC

**Brass finish**

Ref. E5 3000 PC



### Europrofile double cylinders

Double cylinder. 3 keys  
Dimension : 30 x 30 mm and 35 x 35 mm

**Nickel plated**

Ref. E5 7001

**Brass finish**

Ref. E5 7000



### Single Europrofile cylinders

Single cylinder 3 keys  
Dimension: 30 x 10 mm and 35 x 10 mm

**Nickel plated**

Ref. E5 5001

**Brass finish**

Ref. E5 5000

# Notes

A large rectangular area with a grey border, containing 25 horizontal dotted lines for writing notes.

ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience.

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## These are our product brands

