

Cylinder

ASSA ABLOY

The global leader in
door opening solutions





Cylinders and Key Systems

ASSA cylinders & key systems



Key management systems

- ✦ Master key systems designed to order.
- ✦ ASSA Keybank software makes system administration simple.
- ✦ ASSA key cabinets employ sophisticated technology to preserve the security of your keys.



Electromechanical cylinders

- ✦ The ASSA CLIQ system combines the best of electronics and mechanical technology in a single cost-effective package.
- ✦ Intelligent key systems provide maximum security, with instant cancellation of lost or stolen keys and full audit trails available.
- ✦ All standard cylinder shapes are available and the system may be re-programmed at any time, allowing maximum flexibility and maintaining the level of security over the life of the system.



Cylinders

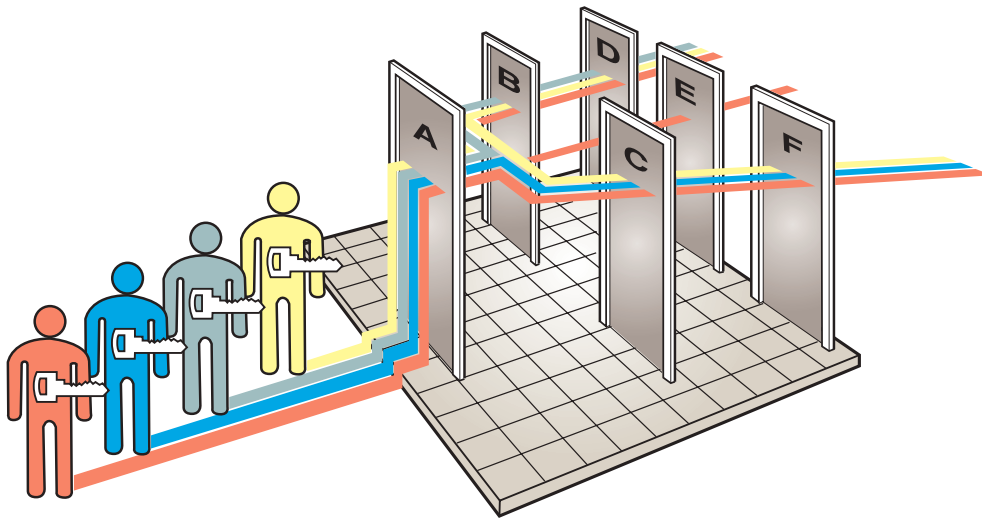
- ✦ Available at six different levels of security.
- ✦ Cylinders in the range have been tested and approved for use on the most security-conscious applications in the UK.
- ✦ A full range of shapes is available, allowing the cylinders to be used with all common makes of lockcase.



Padlocks

- ✦ Tested to the highest levels of BS EN 12320.
- ✦ May be master keyed in the same system as ASSA cylinders.
- ✦ Available in a range of sizes and shackle types to suit different applications.

ASSA master key systems



Security and convenience of movement are inevitably in conflict with each other. A master key system is, by its very nature, a compromise between total security and totally free movement which would entail no security. With a little thought and planning a system can be designed to suit the client's precise operational requirements within each building.

All ASSA locks can be incorporated in a master key system. These are in turn designed around the people who will use them. This has led to systems being designed in a way that is unique to ASSA ABLOY Door Solutions. The number of locks in a building is first established, followed by the people who will use them and the areas they need to enter. Only then are the customer's

particular requirements detailed on a special chart, enabling the system to be made up to suit the specific security requirements of the customer. Users can then be issued with their own unique key which allows them to move freely - but only through areas they need to enter.

A simplified example of a typical ASSA Master Key System. Each person is issued with their own unique key which only opens doors appropriate to their job function. For example, all open door A, but only the Senior Manager can open Door E. ASSA Master Key Systems designed in this way can be extended to satisfy the requirements of large and complex installations without compromising their integrity.

- Cleaner: Doors A, B, C, D, F
- Department Head A: Doors A, B, D
- Department Head B: Doors A, C, F
- Senior Manager: All doors

ASSA supply special forms for use in recording detailed master key information in an easily intelligible manner.

Professional service & support

We have been designing and supplying master key systems in the UK for over 50 years. That expertise is at your service whenever you decide to install or upgrade an ASSA system. Our specialist in-house Systems Department will be happy to advise you on the different options available. In particular, they can ensure that your system is properly planned to accommodate all future expansion, thus avoiding the potentially costly long-term problems possible

with an "off-the-shelf" system. The system is then designed using the latest computer software aids. All these services are available to you free of charge. Once your system has been designed, the cylinders can be assembled and supplied by your local ASSA Security Centre, thus ensuring fast and responsive service. All Security Centres are closely monitored by ASSA ABLOY Door Solutions to ensure the highest standards of quality

and security are observed. They are also required to employ staff who have been specially trained by ASSA ABLOY Door Solutions, enabling them to provide advice and ongoing support with all elements of your system. Backed up when necessary by our own Systems Department, this ensures that you can be assured of the best possible service throughout the lifetime of your system.



Key management software

Keybank for Windows™ has been designed to make the process of key management a simple one. It maintains a full record of the master key system, including a graphical door plan, lock chart, and lists of doors, keys and users. All are fully cross-referenced and automatically updated.

The features Keybank offers include:

- Detailed procedures for recording when keys are issued.
- Receipts and reminder notices.
- Key/User access reports.

The system will run on any standard Windows™ PC.



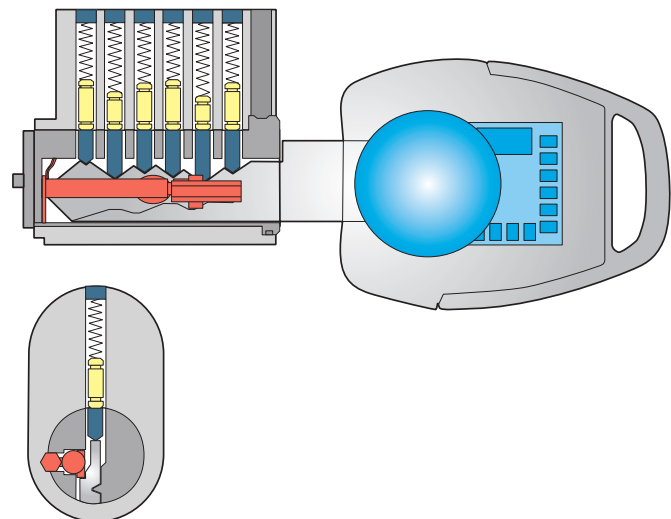
ASSA CLIQ



An ASSA CLIQ cylinder combines a CLIQ electromechanical element with an ASSA dp4400 (or dp2400) cylinder mechanism. Any of the cylinder shapes on the following pages may be fitted with the CLIQ function; please see the next section (pages 2:14-19) for compatible dp4400 and dp2400 mechanical cylinders that may also be incorporated into a master key system with CLIQ. The ASSA dp4400 cylinder offers extremely high security and full resistance to any currently known method of picking.

The dp2400 range offers a lower-cost option within an overall 4400 master key system on doors where higher security is not required.

- MK** All shapes of ASSA CLIQ cylinders and padlocks can be put in the same master key system. CLIQ keys can operate both electromechanical and mechanical cylinders in the same system, but mechanical keys will only operate the mechanical cylinders.
- Dual security levels: may be combined with dp2400 cylinders in the same master key system.
- Protected by worldwide patents.
- Eligible for inclusion in an Option 10 Complete Package Guarantee.



BS EN 1303 : 2005
SG 6

Finishes

In the increasingly polluted atmosphere in which we live, the demands on products to resist corrosion are particularly high. ASSA products have the benefit of the latest automatic plating equipment, which incorporates the best of modern plating processes.

Satin chrome, polished chrome and black chrome give extremely good weather resistance whilst polished brass is offered as a decorative finish.

In addition our products are suitable for replating, on occasions when it is important to match the finish of other ironmongery on a project.

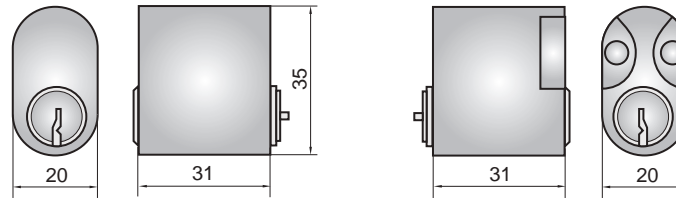
	Cylinders			Accessories			Padlocks
	Satin chrome Fin 13	Polished chrome Fin 11	Polished brass Fin 20	Satin chrome Fin 13	Polished chrome Fin 11	Polished brass Fin 20	Black chrome Fin 18
Scandinavian oval & round	✓	●	✓	✓	●	✓	
Round threaded	✓	●	✓	✓	●	✓	
Euro profile	✓	●	✓	✓	✓	✓	
Oval profile	✓	●	✓	✓	✓	✓	
Padlocks							✓

- ✓ Standard finish
- Special finish

Scandinavian oval

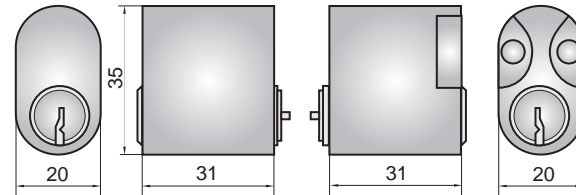
For use with ASSA Modular, Evolution and Narrow Profile lockcases. The cylinder is fixed to the lockcase with two hardened steel screws, supplied with the accessory set.

ASSA accessories must be used: see page 2:38.



➤ **4401***
Single cylinder (outside)

➤ **4403***
Single cylinder (inside)

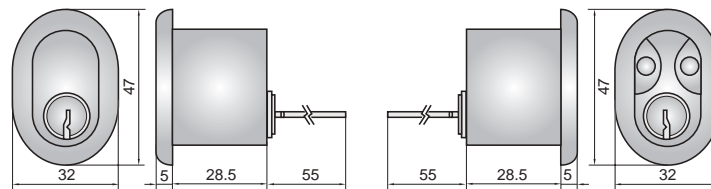


➤ **4402***
Double cylinder

For use with ASSA rim lockcases. The cylinder is fixed to the lockcase with two brass screws which can be cut to length.

Supplied with rim cylinder sleeve.

Sleeve is not required when used with Evolution 35mm backset lockcases and Narrow Profile accessories.



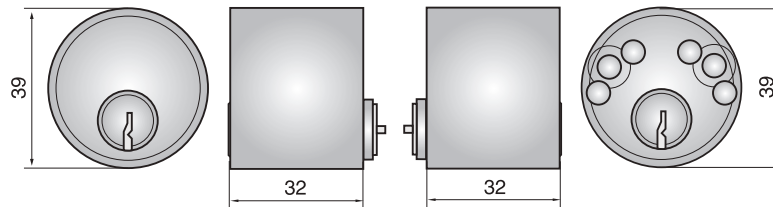
➤ **4407***
Single rim cylinder (outside)

➤ **4409***
Single rim cylinder (inside)

Scandinavian round

For use with ASSA Modular and Evolution lockcases. The cylinder is fixed with four high security hardened steel screws, supplied with the accessory set.

ASSA accessories must be used: see page 2:38.



➤ **4411***
Single cylinder (outside)

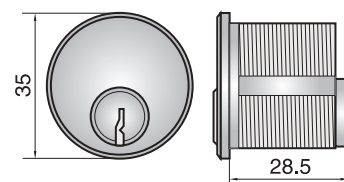
➤ **4413***
Single cylinder (inside)

➤ **4412***
Double cylinder

Round threaded

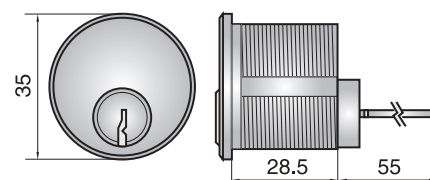
For use with locking devices accepting screw-in cylinders. State lock type when ordering to ensure that correct cam is supplied.

4451 Round Threaded cylinders are also available with microswitch for use as a momentary action keyswitch. See Electric Locking section for further information.



➤ **4451***
Single mortice cylinder

For use with rim locks and other locking devices accepting rim cylinders. Supplied with 5mm Spacer Ring and fixing screws.



➤ **4457***
Rim cylinder

* With CLIQ function

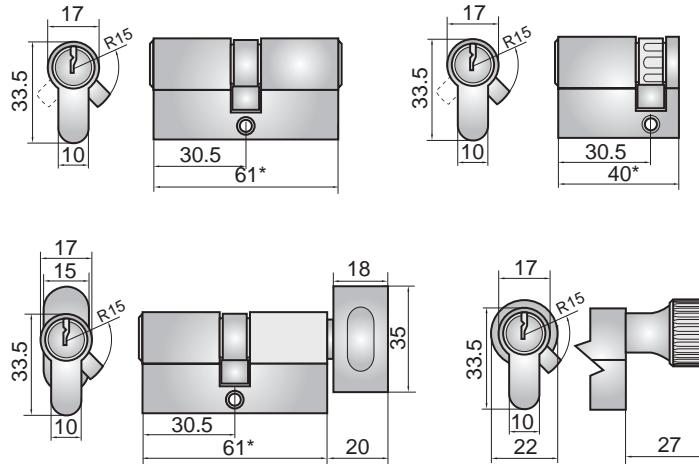
Euro profile

For use with locks accepting Euro profile cylinders. Cylinders are supplied with fixing screw.

* Standard lengths are:
 Single 40mm and 45mm
 Double 61mm and 71mm
 W/Turn 61mm and 71mm

Extended length cylinders are also available: see page 2:38.

Decorative and security accessories are available: see Door Furniture section.



➤ **44M22***
 Double cylinder

➤ **44M23***
 Single cylinder

➤ **44M27***
 Single cylinder
 with Distinction oval turn

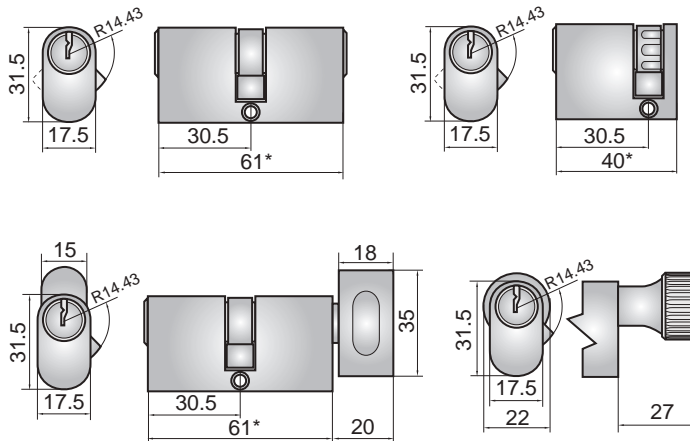
➤ **44M24***
 Single cylinder
 with small round turn

Oval profile

For use with locks accepting Oval profile cylinders. Cylinders are supplied with fixing screw.

CLIQ function is not available on extended cylinders (+5mm/+5mm).

Decorative and security accessories are available: see Door Furniture section.



➤ **4432***
 Double cylinder

➤ **4433***
 Single cylinder

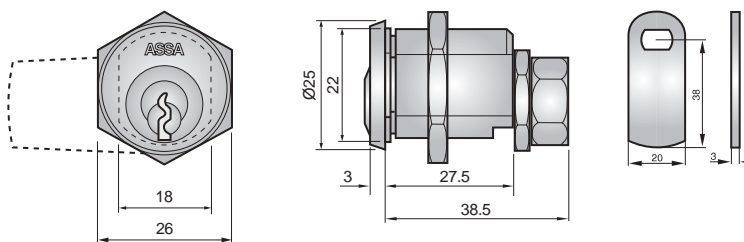
➤ **4437***
 Single cylinder
 with Distinction oval turn

➤ **4434***
 Single cylinder
 with small round turn

Master keyed cam lock

For use on cabinet doors and similar applications. Can easily be adjusted for door thicknesses up to 23mm.

Catches should be specified separately. Standard catch reference 05 is shown; please contact us for details of other options.



➤ **2471***
 Cam lock

* With CLIQ function

Padlocks

Class 2

Padlock body of extruded brass, black chrome plated.

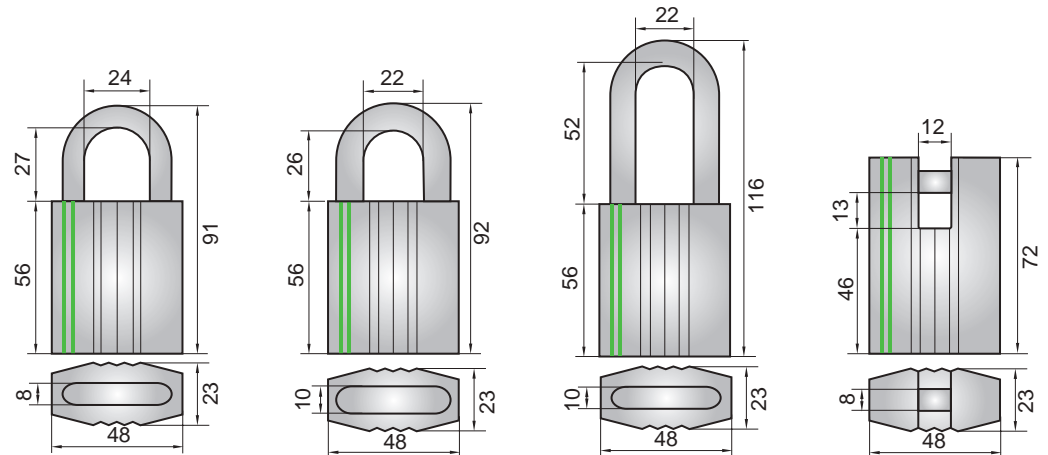
Shackle of rustproofed hardened steel, 8mm or 10mm diameter.

Drainage holes in the padlock body prevent freezing. No external screws or rivets.

Tensile strength over 1½ tons.

Green stripes indicate Security Grade 3 to BS EN 12320.

BS EN 12320
SG 3



44241*
Key locking

44246*
Key locking
10mm dia. shackle

44247*
Key locking
extended shackle

44249*
Key locking
close shackle

Class 3

Padlock body of hardened steel, black chrome plated.

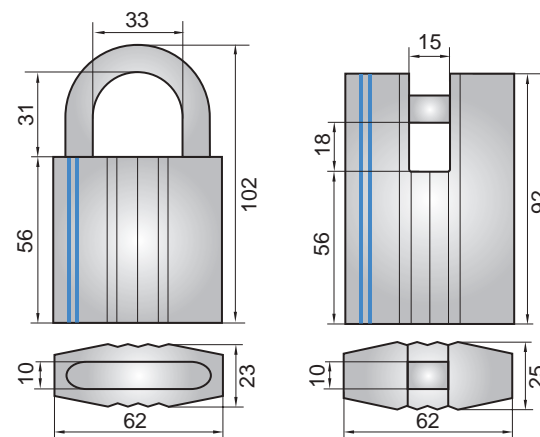
Shackle of rustproofed hardened steel, 10mm diameter.

Drainage holes in the padlock body prevent freezing. No external screws or rivets.

Tensile strength: over 4½ tons.

Blue stripes indicate Security Grade 4 to BS EN 12320.

BS EN 12320
SG 4



44341*
Key locking

44349*
Key locking
close shackle

Class 4 / Class 5

Padlock body of hardened steel, black chrome plated.

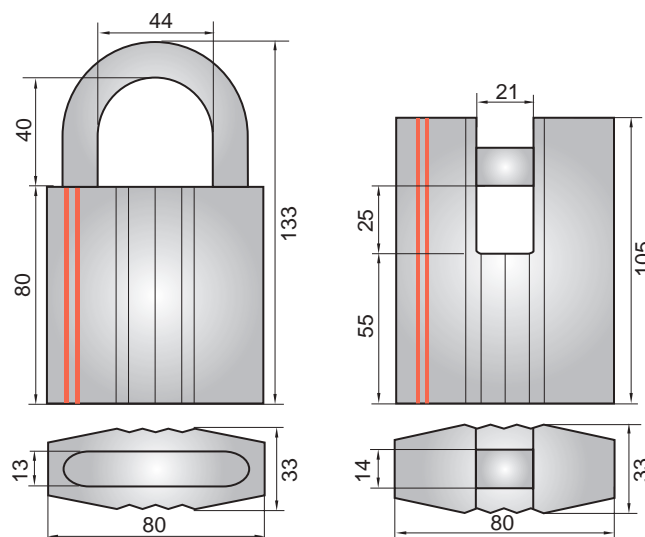
Shackle of rustproofed hardened steel, 13mm diameter.

Drainage holes in the padlock body prevent freezing. No external screws or rivets.

Tensile strength: over 10 tons.

Red stripes indicate Security Grade 5 (open shackle) or Grade 6 (close shackle) to BS EN 12320.

BS EN 12320
SG 5 / 6
















44441*
Key locking

44549*
Key locking
close shackle

* With CLIQ function

Table of references

							
	ASSA dp4400	ASSA dp2400	ASSA Twin Combi 5800	ASSA 4800	ASSA Flexcore	ASSA 5-pin	
	Scandinavian oval cylinders						
	Single cylinder (outside)	4401	2401	C5801	4801	F501	R501
	Single cylinder (inside)	4403	2403	C5803	4803	F503	R503
	Double cylinder	4402	2402	C5802	4802	F502	R502
	Rim single cylinder (outside)	4407	2407	C5807	4807	F507	R507
	Rim single cylinder (inside)	4409	2409	C35807	34807	F3507	R3507
	Rim double cylinder	4408	2408	C135807	134807	F13507	R13507
	Scandinavian round cylinders						
	Single cylinder (outside)	4411	n/a	C5811	4811	n/a	n/a
	Single cylinder (inside)	4413	n/a	C5813	4813	n/a	n/a
	Double cylinder	4412	n/a	C5812	4812	n/a	n/a
	Round threaded cylinders						
	Mortice single cylinder	4451	2451	C5851	4851	F551	R551
	Mortice double cylinder	4452	2452	C5852	4852	F552	R552
	Rim single cylinder	4457	2457	C5857	4857	F557	R557
	Euro profile cylinders						
	Single cylinder	4423	2423	C5823	4823	F523	R523
	Double cylinder	4422	2422	C5822	4822	F522	R522
	Single cyl with large round turn	n/a	n/a	C5821	4821	F521	R521
	Single cyl with small round turn	4424	2424	C5824	4824	F524	R524
	Single cylinder with oval turn	4427	2427	C5827	4827	F527	R527
	UK oval profile cylinders						
	Single cylinder	4433	2433	C5833	4833	F533	R533
	Double cylinder	4432	2432	C5832	4832	F532	R532
	Single cyl with large round turn	n/a	n/a	C5831	4831	F531	R531
	Single cyl with small round turn	4434	2434	C5834	4834	F534	R534
	Single cylinder with oval turn	4437	2437	C5837	4837	F537	R537
	Cam and furniture locks						
	Cam lock	n/a	2471	C5870	4870	n/a	R5207
	Furniture lock	n/a	n/a	n/a	n/a	n/a	R5208
	Padlocks						
	Class Two snap locking	n/a	n/a	n/a	24840	F2540	R2540
	Class Two open shackle	44241	24241	C25841	24841	F2541	R2541
	Class Two extended shackle	44243	24243	C25843	24843	F2543	R2543
	Class Two 10mm shackle	44246	24246	C25846	24846	n/a	n/a
	Class Two close shackle	44249	24249	C25849	24849	F2549	R2549
	Class Three open shackle	44341	n/a	C35841	34841	n/a	n/a
	Class Three close shackle	44349	n/a	C35849	34849	n/a	n/a
	Class Four open shackle	44441	n/a	C45841	n/a	n/a	n/a
	Class Four close shackle	n/a	n/a	n/a	54849	n/a	n/a
	Class Five close shackle	44549	n/a	C55849	n/a	n/a	n/a

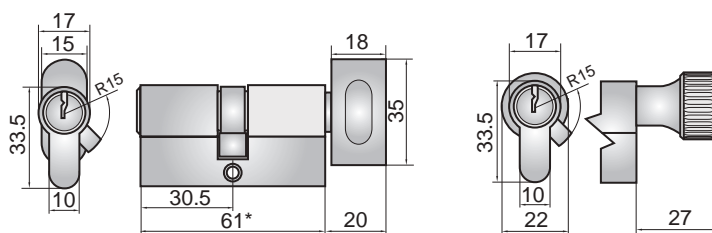
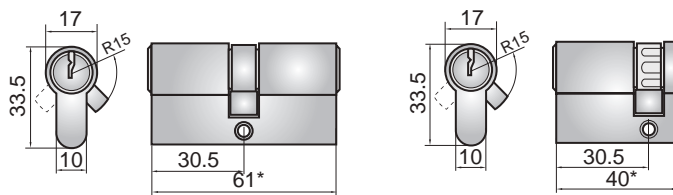
Euro profile

For use with locks accepting Euro profile cylinders. Cylinders are supplied with fixing screw.

* Standard lengths are:
 Single 40mm and 45mm
 Double 61mm and 71mm
 W/Turn 61mm and 71mm

Extended length cylinders are also available: see page 2:38.

Decorative and security accessories are available: see Door Furniture section.



➤ 4422
 Double cylinder

➤ 4423
 Single cylinder

➤ 4427
 Single cylinder
 with Distinction oval turn

➤ 4424
 Single cylinder
 with small round turn

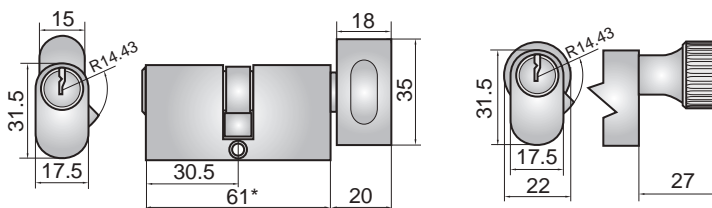
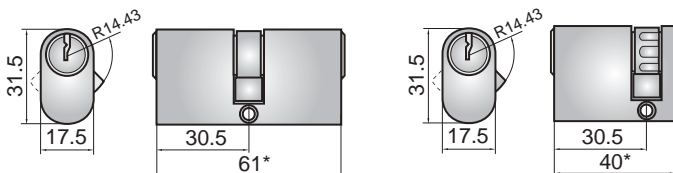
Oval profile

For use with locks accepting Oval profile cylinders. Cylinders are supplied with fixing screw.

* Standard lengths are:
 Single 40mm and 45mm
 Double 61mm and 71mm
 W/Turn 61mm and 71mm

Also available in:
 Single 50mm (+10)
 Double 81mm (+10+10)
 W/Turn 81mm (+10+10)

Decorative and security accessories are available: see Door Furniture section.



➤ 4432
 Double cylinder

➤ 4433
 Single cylinder

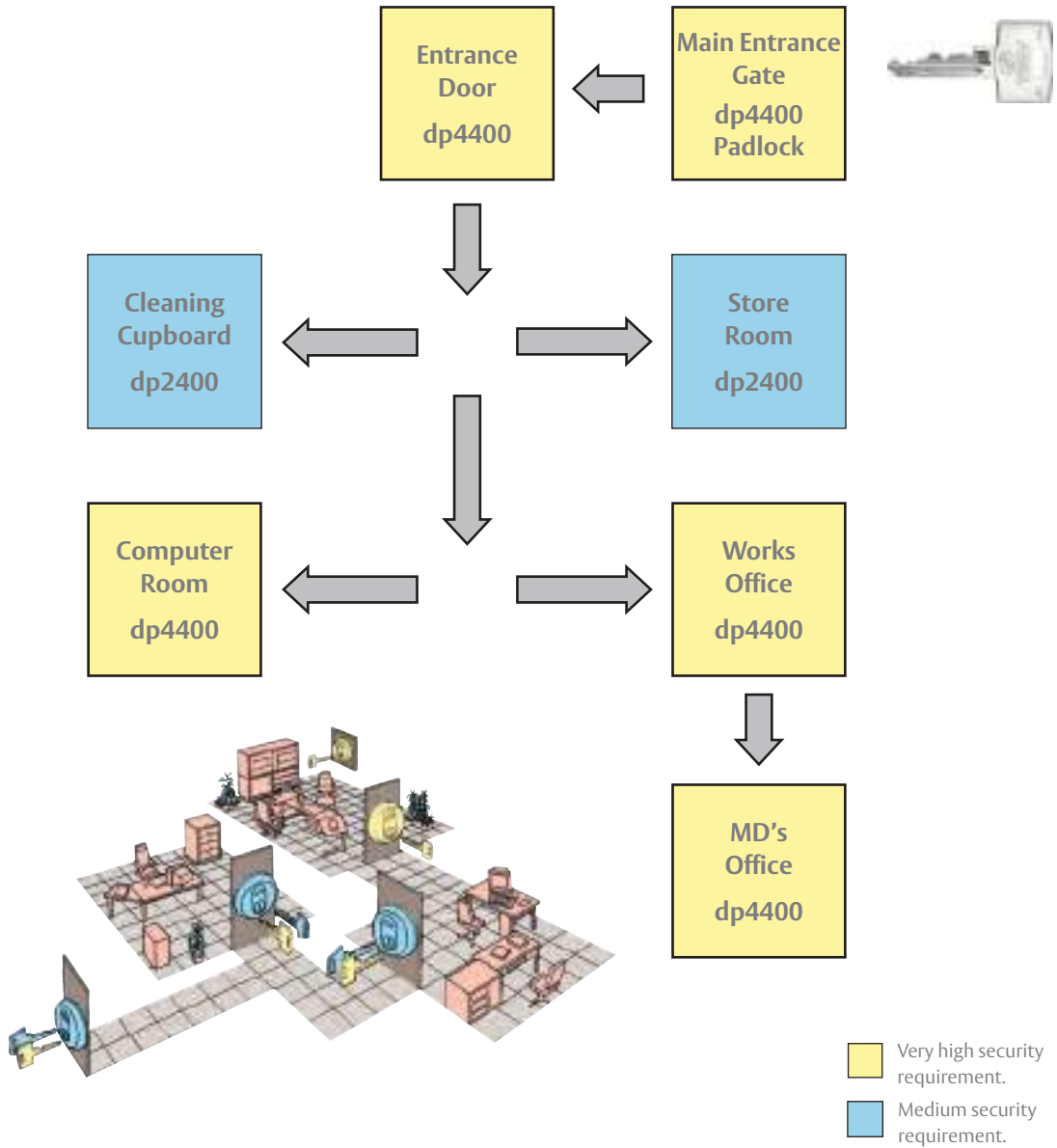
➤ 4437
 Single cylinder
 with Distinction oval turn

➤ 4434
 Single cylinder
 with small round turn

ASSA dual systems

The ASSA dp4400 / dp2400 dual system is ideal for situations where very high security is required on certain doors, such as perimeter doors and places where high value equipment is kept. At the same time it eliminates over-specifying on doors where such a high level of security is not required. As a result it becomes both convenient and cost-effective where a high security master key system is required.

A dp dual system can also incorporate ASSA CLIQ electronic cylinders (see page 2:6).



The ASSA dp2400 system is fully compatible with dp4400 very high security cylinders. This allows the creation of dual security master key systems, with ASSA dp4400 cylinders on sensitive doors and lower-cost dp2400 cylinders on other doors. The range features a 6-pin tumbler mechanism plus a patented sidebar mechanism and case-hardened drill-resistant inserts.

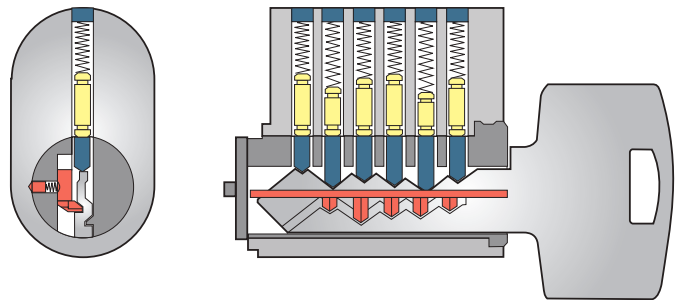
ASSA dp keys are fully protected by international patents against unauthorised duplication. All ASSA dp key profiles are restricted.

MK All shapes of ASSA dp2400 (and dp4400 and ASSA CLIQ) cylinders and padlocks can be placed in the same master key system.

DP Dual security levels: may be combined with ASSA dp4400 and ASSA CLIQ cylinders in the same master key system (see page 2:18).

IP Protected by worldwide patents.

10 Eligible for inclusion in an Option 10 Complete Package Guarantee.



ABLOY® PROTEC²

THE ULTIMATE LOCKING SOLUTION



ABLOY® PROTEC² is the latest milestone in the development of the unique **ABLOY®** rotating disc cylinder keying systems that offers several unsurpassed and superior security features and benefits.

PROFESSIONAL SOLUTIONS FOR ULTIMATE HIGH SECURITY NEEDS

The world is challenged by mounting security threats in every conceivable sector. Our mission is to meet these challenges and to provide complete locking solutions for the 21st century's marketplace. **ABLOY® PROTEC²** is one more milestone in that mission.

ABLOY® locks and cylinders are chosen worldwide for highly sensitive applications. They are recognised as the world's premium high security locking systems, used extensively by private, commercial and government end users who demand the ultimate in high security.

Security solutions may vary at different premises according to their size and type of business. But the need for high security system solutions is universal. As an example, the world is dependent on water, electricity and communications networks. Security in these utilities is essential for our well being and therefore their protection is vital.

A growing number of applications depend upon the ability to deliver their services 24/7. Any break or interruption to their service caused by vandalism or physical attack can prove devastating for the security, health, financial costs and reputation of a facility or an enterprise. Combining safety, security and convenience is a challenging task so the quality, design and functionality of the locking system must meet those challenges.

Security threats are not static, nor are the solutions. **ABLOY** has extensive experience and expertise in the field of high security locking systems and we can offer you highly secure and customized solutions.

Secure in every way

In an **ABLOY® PROTEC²** locking system, different products can be keyed into the same master key system and thus all products can be operated with just a single key. This simplifies your locking system and key management. The range is wide, there are 1,97 billion different key combinations providing the possibility to create extensive Master Key systems that fulfil your exact specifications.

ABLOY® PROTEC² is durable and long lasting thanks to its superior design and precision manufacturing. The unique and patented rotating disc technology provides smooth and reliable functionality also in extreme environments.

ABLOY® PROTEC² can be integrated with electromechanical **CLIQ**-technology. This electromechanical system is intelligent and highly customizable. It enables flexible and secure access management, including time functions, into your daily operations. And in case of a lost or stolen key it can easily be electronically removed. Both the cylinders and keys collect audit trail of use. **CLIQ** makes things click. It lifts your locking security to a whole new level.

ABLOY® PROTEC²

WE HAVE ONLY ONE MISSION – TO OFFER YOU THE ULTIMATE IN HIGH SECURITY PROTECTION

The patented technology in **ABLOY® PROTEC²** is superior and it exceeds the highest industry standards. Our worldwide team of security professionals can help you design a system that is right for you.

The **UNIQUE ABLOY®** cylinder mechanism, based on the use of **rotating discs** instead of the traditional springs and pins, is known widely by security professionals as the world's **PREMIUM** high security locking system. **ABLOY® PROTEC²** is the latest development of this unique technology which offers numerous **UNSURPASSED** features and benefits over conventional locking products.





PATENTED features in keys and cylinders assure that the installations will be protected for many years to come. **ABLOY® PROTEC² worldwide patents are valid until 2031.**

SECURE level has been further improved in **ABLOY® PROTEC²** by a new disc controller and key design. **This patented disc controller structure requires a moving element in the key** to mate with the cylinder internally in order to function, thus raising the difficulty of any attempt to copy an unauthorised key, reaching a new higher level of security.

LONGEVITY is further reinforced with our **new patented feature, AWS (Anti Wear System)** which is a mechanism in the **ABLOY® PROTEC²** key and cylinder that prolongs the life cycle even in extensive use applications.

CONTROLLED distribution of **ABLOY® PROTEC² key blanks** and the use of different security levels and profiles ensures the highest level of key control tailored to your exact needs.

PROFESSIONAL design makes **ABLOY® PROTEC² cylinders virtually pick proof and bump proof. DBS (Disc Blocking System) is a patented feature** that stops attempts to manipulate the discs.

SUPERIOR master keying features are offered based on our vast number of different key combinations. In **ABLOY® PROTEC²** locking systems, different products can be keyed into the same master system with all products being operated with a single key.

PRACTICAL planning of your master key system is possible along with the ability to incorporate multi level systems each with unique access rights for different user groups.

EXPANDABLE locking systems can be designed to cover large and extensive facilities.

UPGRADEABLE system may combine a mechanical master key system with electromechanical functions.

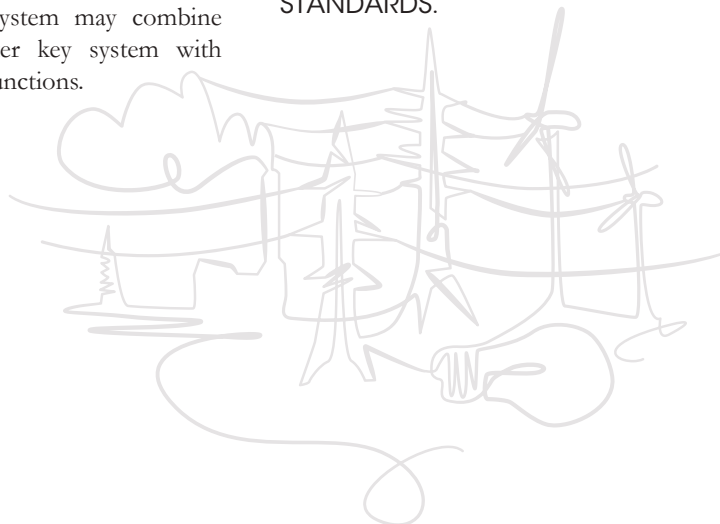
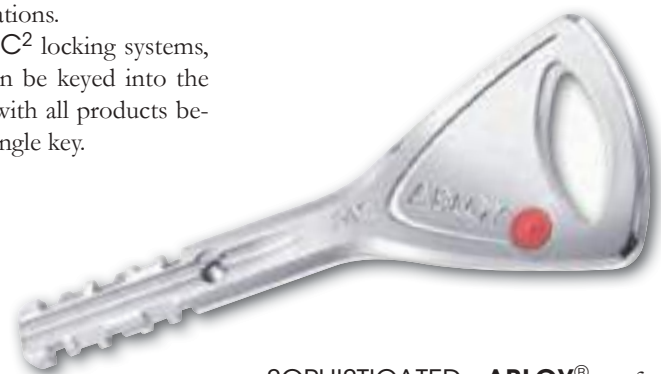
ULTIMATE high security features can be further enhanced by integrating the intelligent **CLIQ** technology with the mechanical **ABLOY® PROTEC²** master key system to utilise both mechanical and electronic identification. Communication is encrypted. Cylinders and keys can record the audit trail of their use. Adding and denying access rights is easy, flexible and secure.

DURABLE design without springs and pins provides **RELIABLE** function in severe environments.

SOPHISTICATED **ABLOY®** software provides a user friendly tool to facilitate the easy administration of the locking system.

EXTENSIVE PRODUCT RANGE of **ABLOY® PROTEC²** means that we can secure numerous applications from door environments to industrial applications and equipment.

ABLOY® PROTEC² offers a global solution. Products are designed and manufactured to **MEET** and **EXCEED** requirements of several international, national and customer specific **STANDARDS.**



ABLOY® PROTEC²

ONE CORE, WIDE PRODUCT RANGE

ABLOY® PROTEC² meets and exceeds requirements of several international, national and customer specific standards and requirements. With an extensive product range, **ABLOY®** PROTEC² provides a global solution.

While the core of the cylinder remains the same, the outer covering can be changed to meet the requirements of the specific application.

Superior quality for superior demands

ABLOY® locks and cylinders are chosen worldwide for sensitive applications in the most exposed locations, continually defying the elements, on land and sea, in the coldest and the hottest of climates. **ABLOY®** products are selected as the first choice of the professionals in countless applications all around the world.

Our clients trust us.

ABLOY professional high security solutions are used worldwide in:

- Governmental and institutional applications
- Utilities
- Telecommunication applications
- Industrial plants
- Education
- Healthcare
- Museums and Heritage
- Corporate applications
- Transportation
- And many more



ABLOY® PROTEC²

ABLOY HAS A KEY-ROLE IN THE WORLDWIDE SECURITY

We have over 100 years experience and expertise in the field of high security locking products. Ever since its' invention **ABLOY®** has been at the highest level of the lock Industry.

The driving force behind every part of **ABLOY** is a commitment to provide reliable service together with the highest quality products for any given application worldwide. **ABLOY®** products are result of continuous R & D, testing and ability to understand and solve our customers' highest security needs.

Abloy Oy has a world-wide network of sales units and distributors. They have extensive knowledge of **ABLOY®** products and can provide you the best local service and expertise.

Please contact us. Our professional team is here to help you.

All ABLOY® cylinder products are designed and manufactured in Finland.

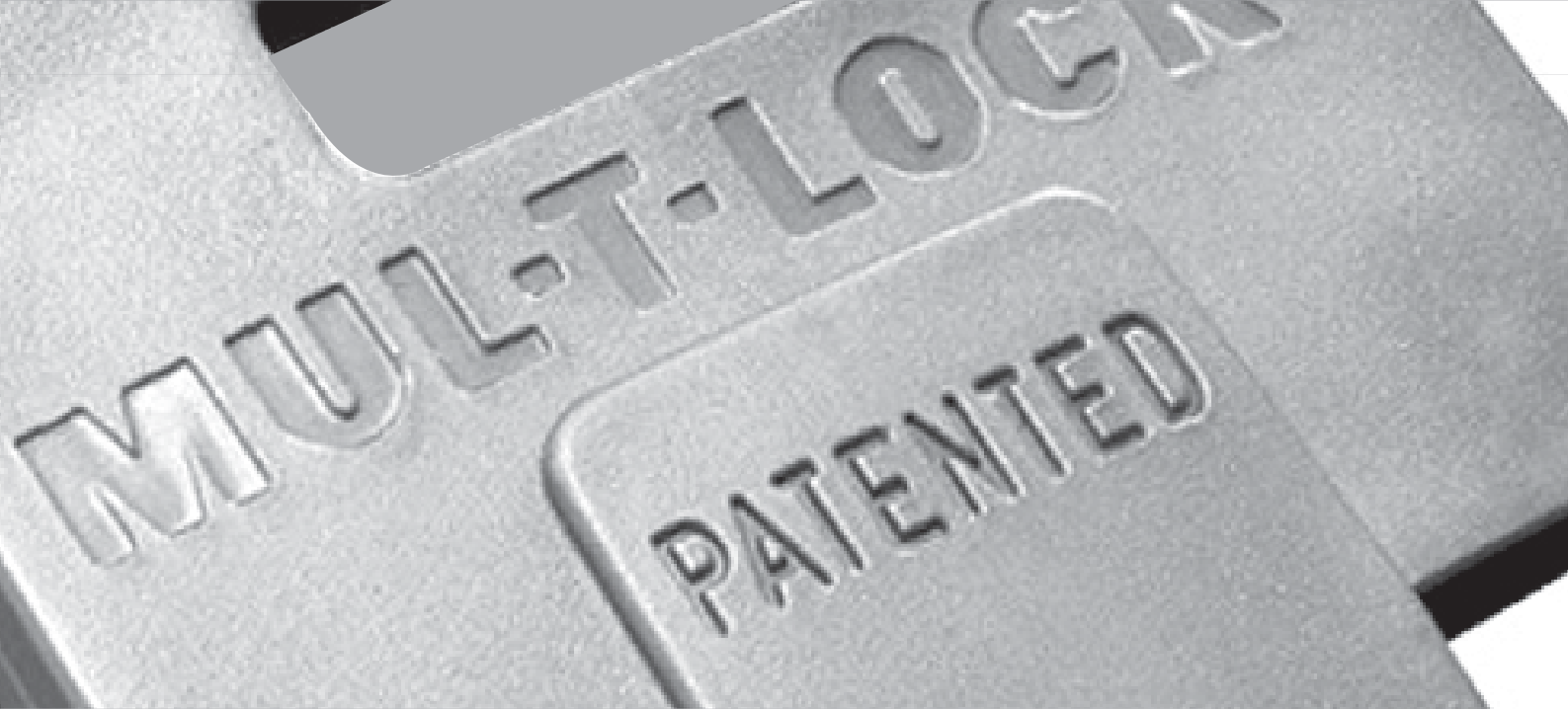


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Your local **ABLOY** contact:

www.abloy.com



CYLINDER PLATFORMS

Mul-T-Lock® MT5® Platform

High Security with patented key control

Mul-T-Lock's MT5®, the 5th generation patented state-of-the-art High Security cylinder platform, with built-in experience of 3 decades, features an advanced security concept that combines several powerful elements: the patented Alpha Spring located at the tip of the key, a magnetic key duplication card, and a dedicated computerized key-cutting machine - the KC5.

All combined, these features enable millions of possible combinations, extensive master-keying capabilities, keyway exclusivity for dealers, and automatic cutting of large key series.

The MT5®'s breakthrough features include:

- ▶ **Patented security:** the innovative Alpha Spring at the tip of the MT5® key - with a patent that expires only in 2025, engages a unique pin at the rear of the locking mechanism, to create an additional shear line.
- ▶ **KC5 - a dedicated key cutting machine:** the MT5® platform is supported by the super-smart newly developed KC5 electronic key cutting machine, that duplicates MT5® keys and automatically cuts large series of keys by interfacing with MASTERpiece software.
- ▶ **Advanced key control:** MT5® keys are provided with a coded magnetic duplication card - which can be read by the dedicated KC5 key cutting machine.
- ▶ **A new configuration** of Mul-T-Lock's unique telescopic pin technology, with 5 telescopic pins that fit special cuts on the MT5® key.
- ▶ **A huge** number of possible locking combinations, thanks to the double locking mechanism of telescopic pins and patented Alpha Spring.
- ▶ **Compliance** with the toughest international standards: European EN1303, SKG (Netherlands), Israeli standard, etc.



MT5® +

Mul-T-Lock® High Security is even further enhanced by MT5®+, an advanced version of the MT5® platform, featuring:

- ▶ An additional locking bar mechanism.
- ▶ An even greater number of possible combinations, enabled by the MT5®+'s three different locking mechanisms.
- ▶ A special milled pattern on the patented key, which fits the locking bar.
- ▶ Exclusive keyway options based on the milled pattern.
- ▶ Extensive master keying capabilities, supporting very large and complex master key systems that incorporate hierarchy and matrix design requirements even within the same suite.



www.mul-t-lock.com

Mul-T-Lock® Interactive® + Platform

Advanced key technology

Mul-T-Lock's Interactive®+ platform builds on the foundation and innovation of the Interactive system, adding new features for enhanced effectiveness.

Mul-T-Lock's latest patent-pending technology protection is currently only available through the platform's unique pin design in Interactive®+ cylinders.

- ▶ Interactive®+ increases security effectiveness with a telescopic pin tumbler mechanism that requires the simultaneous alignment of both internal and external shear lines for plug rotation.
- ▶ Featuring enhanced intrusion protection, Interactive®+ is highly pick, drill and bump resistant.
- ▶ Coded key cards and service through trained and authorized Mul-T-Lock® Interactive®+ dealers help prevent unauthorized duplication
- ▶ Available in all formats and product types — retrofit cylinders, padlocks, locks and multi-point locks — one key can fit them all.
- ▶ Master keying capabilities allow users to design the system they need
- ▶ Backwards compatibility provides existing Interactive users the flexibility to expand their systems seamlessly and migrate to Interactive®+ at their own pace

Mul-T-Lock® Interactive®+ Platform meets the world's most stringent standards.



Mul-T-Lock® Classic Platform

Mul-T-Lock's Classic platform is based on several special features:

- ▶ Mul-T-Lock's unique telescopic pin tumbler mechanism, with internal and external pins – requiring the simultaneous alignment of both internal and external shear lines for the plug to rotate.
- ▶ A specially designed plug, which forms a spherical, 3-dimensional shear line with the top and bottom pins, within the cylinder body.
- ▶ Steel inserts with high drill resistance
- ▶ High pick and bumping resistance
- ▶ Optional side and back pins, specially suited for master key systems.
- ▶ A coded Mul-T-Lock® key card supplied in every package, to enhance key security. Additional keys may be cut by authorized Mul-T-Lock® dealers, upon presentation of the key card – in accordance with Mul-T-Lock's official key cutting procedures.



The Classic platform meets the requirements of some of the most stringent European and American standards.



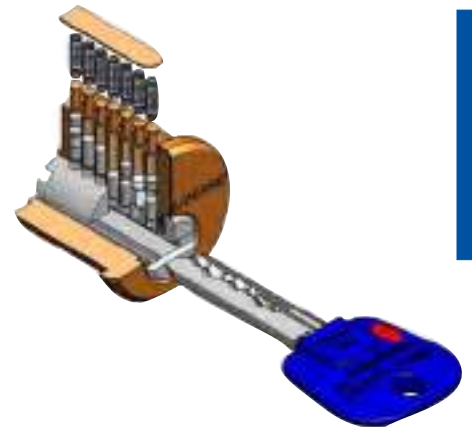
Mul-T-Lock® Integrator® Platform

Mul-T-Lock's Integrator® platform, one generation ahead of the standard 7X7, introduces several advantageous features:

- ▶ A unique, high-precision 7-pin tumbler mechanism
- ▶ A patented key blank with a copy-protected oval cut, available in 3 different configurations: Internal, External and Twin
- ▶ Special launcher pins inserted into relevant cylinder plug chambers, corresponding to the key's oval cut

Thanks to its improved design, the robust Integrator® platform offers enhanced tamper resistance, a range of keyed alike and keyed different options, and flexible master keying possibilities.

Key limitation is ensured by the key and key blank, supplied together with a coded Mul-T-Lock® key card in every Integrator® package. Additional keys may be cut by authorized Mul-T-Lock® dealers, upon presentation of the key card – in accordance with Mul-T-Lock's official key cutting procedures.



Cylinder Platforms



www.mul-t-lock.com



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Mul-T-Lock® 7X7® Platform

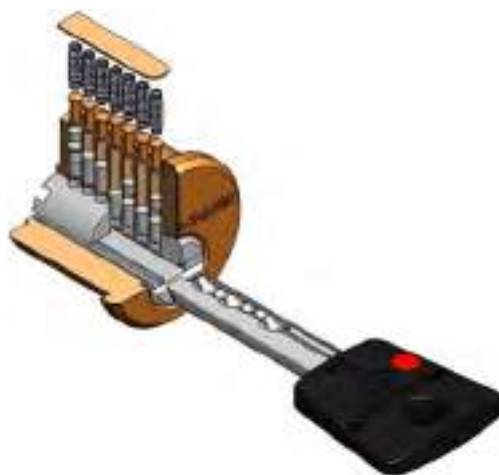
7X7 is Mul-T-Lock's standard platform, providing an excellent level of basic security and exceptional value for money.

The 7x7 features:

- ▶ A pin tumbler mechanism with 7 chambers
- ▶ A reversible nickel silver key with a plastic head

The 7x7 platform may be keyed alike, keyed different or master keyed.

Key limitation is ensured by the key and key blank, supplied together with a coded Mul-T-Lock® key card. Additional keys may be cut by authorized Mul-T-Lock® dealers, upon presentation of the key card – in accordance with Mul-T-Lock's official key cutting procedures.



Keying Possibilities

Mul-T-Lock® offers its costumers a variety of convenient and secure keying solutions to meet their specific needs:

- ▶ **Keyed different:** Mul-T-Lock's traditional High Security equips each cylinder with its own distinct combination.
- ▶ **Keyed alike:** for exceptional customer convenience, Mul-T-Lock® has developed the One-Key-Fits-All option, enabling users to open many locks - for example: home, office, garage & file cabinet - with a single key.
- ▶ **Master keying:** large organizations enjoy Mul-T-Lock's advanced and friendly master key systems, that are easy to manage even when the requirements are vast and complex.

Master Keying

The power of being your own master

Mul-T-Lock® is a world leader in the design and manufacture of master key systems for many needs and purposes. Mul-T-Lock's master key systems offer several major benefits for end-users:

- ▶ Overloaded key rings are replaced by a single master key.
- ▶ The main master key enables system managers to open every door in the system - while other users are provided with keys that only open specific doors.
- ▶ A wide range of Mul-T-Lock® products – such as cylinders for the user's home, office and vehicle - may be incorporated into a single master key system, controlled by one key.

Mul-T-Lock's master keying products are also exceptionally locksmith-friendly and are supplied with pinning kits, tools and computerized programs.

Special training is available for dealers who wish to design and build master key systems for their own customers.

There is always a trade-off between security and convenience.

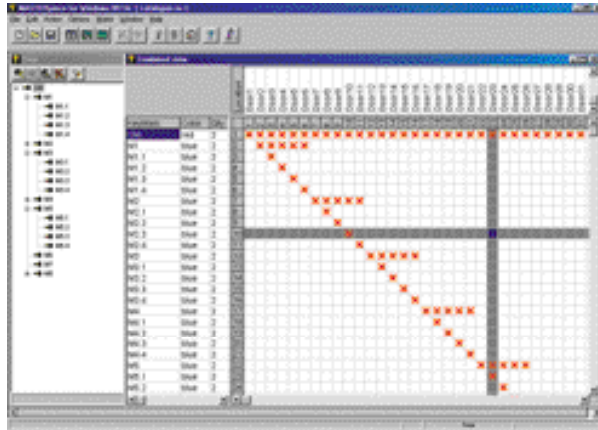


Master Keying Software

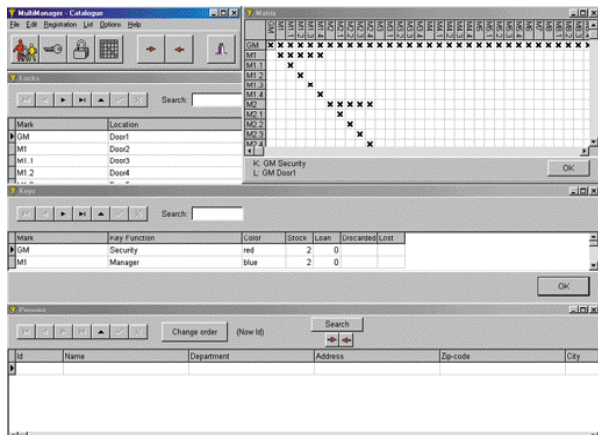
Mul-T-Lock's master keying offering includes two friendly software programs:

MASTERpiece: An advanced solution for the master key system designer. Automatically presenting all required information on the computer screen, and supporting both hierarchal and matrix design methods, MASTERpiece enables a fast, easy and efficient designing process.

Multimanager: The smart key management software program. Specially created for security officers who manage complex master key systems, this friendly program records all information about keys distributed to users.



Cylinder Platforms



Master Keying Design Methods

Mul-T-Lock's master key systems may be based on two alternative design methods:

The hierarchal design: Incorporating several levels of access authorization, with higher levels authorized to open lower level entrances. Ordinarily hierarchal systems include Grand Master (GM) keys, which can open every cylinder in the system, all the way down to keys that unlock a single cylinder.

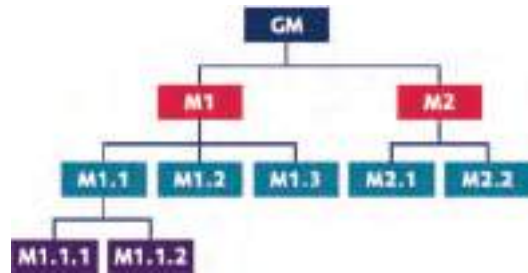


Illustration: In this example, the GM (Grand Master) key opens all cylinders, M1 & M2 are 2 different master keys accessing the doors of 2 separate departments, and each of the bottom level keys, such as M1.1.1 and M2.2, fits just one cylinder.

The Matrix design: Based on a matrix chart, in which each column represents a cylinder on the premises, and each row represents a key holder. This method enables the designer to define precise access authorization for each key.

Key	C1	C2	C3	C4
K1	×	×	×	×
K2		×		
K3		×	×	
K4		×		×

Illustration: In this example, key K1 opens all 4 cylinders, K2 can only open C2, and C2 is a central cylinder, which can be opened by all 4 keys.



Key Options

Range of key heads

Mul-T-Lock® offers a range of top quality key blanks for its various cylinder platforms. Keys are made of high-grade metals, for long-lasting durability. Key may include the following features:

- ▶ Reversible nickel silver design
- ▶ Colored insert for easy identification
- ▶ Option for personalized message embossed on metal or plastic key heads
- ▶ Option for plastic key heads with personalized inserts
- ▶ Key duplication card



Interactive®+ – with plastic key head



Interactive®+ – all nickel silver



Interactive®+ CLIQ®



Interactive® – with plastic key head



Interactive® – all nickel silver



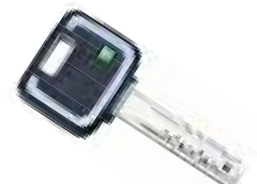
MT5® CLIQ®



Integrator®



Classic – all nickel silver



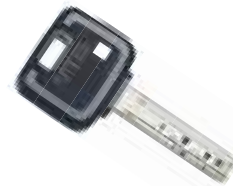
M10



Classic – with plastic key head



7X7®



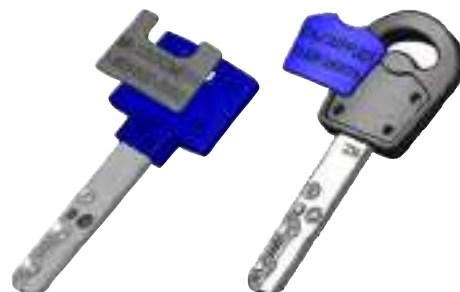
MT5®

Key Options

Personalized key heads

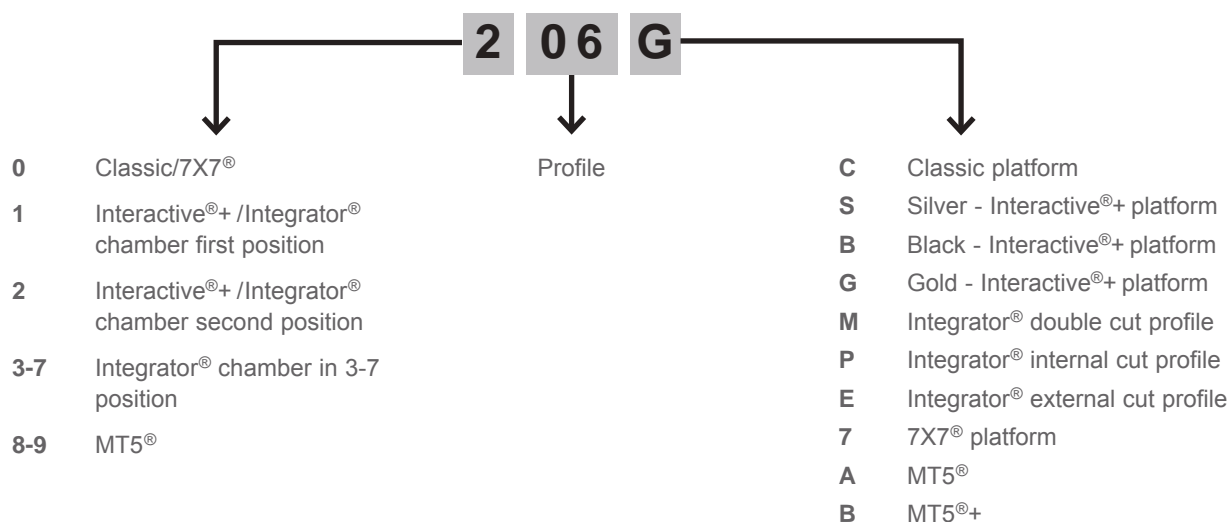
Mul-T-Lock® offers costumers (locksmiths, OEMs etc.) three ways to personalize Mul-T-Lock's key blanks, thereby advertising their business on the keys they sell:

- ▶ A new cost-effective concept - personal info (name, logo, phone, etc.) embossed on plastic inserts, available in two different shapes that fit into special insert-compatible plastic key heads
- ▶ Personal info embossed on plastic key heads
- ▶ Personal info embossed on key heads of metal key blanks



Ordering key blanks

To order the key blanks of your choice, you must send in the appropriate key blank identification code, consisting of 4 digits/characters: 206S, 006C, 005C, etc.



To order your personalized inserts or key blanks with personalized key heads (plastic or metal), please email the info to be advertised on the key head to Mul-T-Lock® Headquarters.

The personalized key head will be designed, and once you have approved the graphics and placed your order, the personalized key blanks / inserts will be produced and delivered.

Please note:

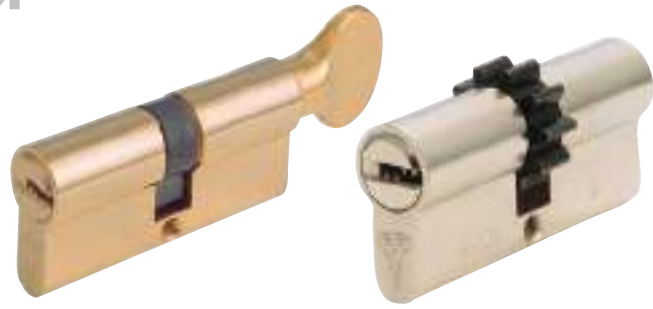
Minimum quantity per order is:

- ▶ Plastic inserts – 3,000 units
- ▶ Key blanks with personalized plastic key heads – 2,500 units
- ▶ Personalized all-metal keys blanks - 1,000 units



www.mul-t-lock.com

Euro Profile Cylinder



Application

Compatible with locks and lock cases using Euro profile cylinder.

Operation

360° rotation by operating key or thumbturn. Standard double cylinder, full key insertion disengages other side.

Materials

Body and plug: high quality brass
Cam and cogwheel: steel
Pins: nickel silver and stainless steel

Standard finishes

Nickel satin, brass, shiny brass

Special finishes

Nickel chrome, antique brass

Cylinder mechanism

Mul-T-Lock's unique, high precision pin tumbler system.

Keys

Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

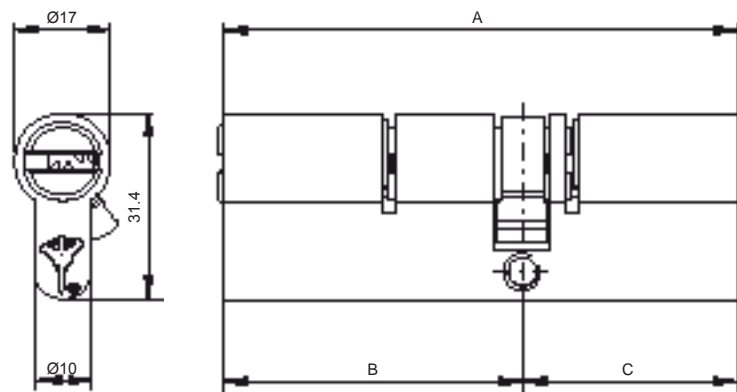
Cylinder options

- Classic, Interactive[®]+, MT5[®] platforms
- '3 IN 1' (changeable combination)
- Keyed different, keyed alike
- Master keyed
- Variety of thumbturns, cams and cogwheels
- Emergency cylinder with both sides permanently operational

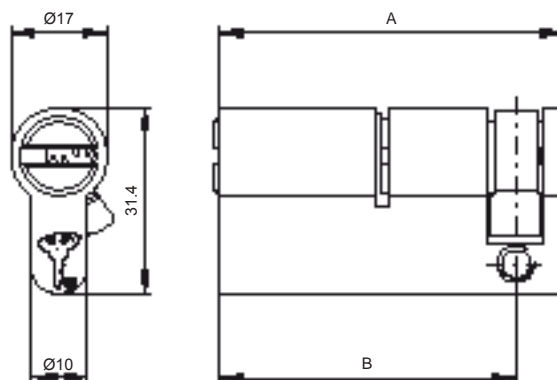
Standards

ISI 950, EN1303

Double cylinder



Single cylinder



Euro Profile Cylinder

Lengths Available (mm)

Double cylinder

A	B	C
62	31	31
66	31	35
66	33	33
70	35	35
71	31	40
71	33	38
75	40	35
76	31	45
76	33	43
76	38	38
78	33	45
80	40	40
80	45	35
81	31	50
81	33	48
81	38	43
82	47.5	34.5
83	35	48
83	45	38
85	45	40
85	50	35
86	31	55
86	33	53
86	38	48
86	43	43
88	40	48
88	50	38
90	45	45
90	50	40
90	55	35
91	31	60
91	33	58

A	B	C
91	38	53
91	43	48
93	40	53
93	48	45
95	50	45
95	55	40
95	60	35
96	31	65
96	33	63
96	38	58
96	43	53
96	48	48
100	50	50
100	55	45
100	60	40
100	65	35
101	31	70
101	38	63
101	43	58
101	48	53
101	68	33
105	55	50
105	60	45
105	65	40
105	70	35
106	53	53
110	55	55
110	60	50
110	65	45
110	70	40
110	75	35
111	48	63

A	B	C
115	60	55
115	65	50
115	70	45
115	75	40
115	80	35
116	33	83
118	33	85
120	60	60
120	65	55
120	70	50
120	75	45
120	80	40
125	50	75
125	65	60
125	70	55
125	80	45
130	50	80
130	55	75
130	65	65
130	70	60
130	95	35
135	55	80
135	60	75
135	65	70
135	100	35
136	68	68
140	40	100
140	60	80
140	65	75
140	70	70

Single cylinder

A	B
40.5	31
42.5	33
44.5	35
47.5	38
49.5	40
52.5	43
54.5	45
57.5	48
59.5	50
64.5	55
69.5	60
74.5	65
79.5	70
84.5	75
89.5	80
99.5	90
134.5	125

Note: For lengths from 40 mm up use standard plugs and additional spacers in order to get the required length. Other lengths are available by special order.

Not all lengths are available in all platforms.

U.K. Oval Profile Cylinder



Application

Compatible with lock and lock cases using UK oval profile cylinder.

Operation

360° rotation by operating key or thumbturn. Standard double cylinder, full key insertion disengages other side.

Materials

Body and plug: high quality brass
Cam and cogwheel: steel
Pins: nickel silver and stainless steel

Standard finishes

Nickel satin, brass

Cylinder mechanism

Mul-T-Lock's unique, high precision pin tumbler system.

Keys

Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

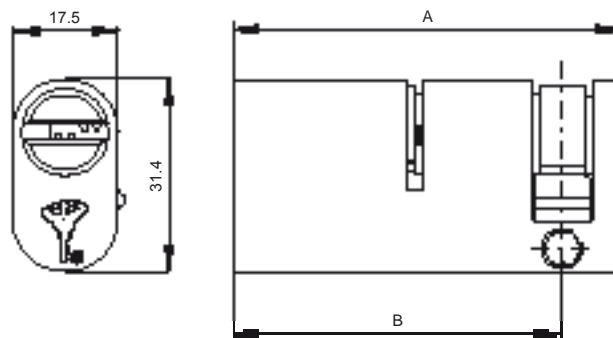
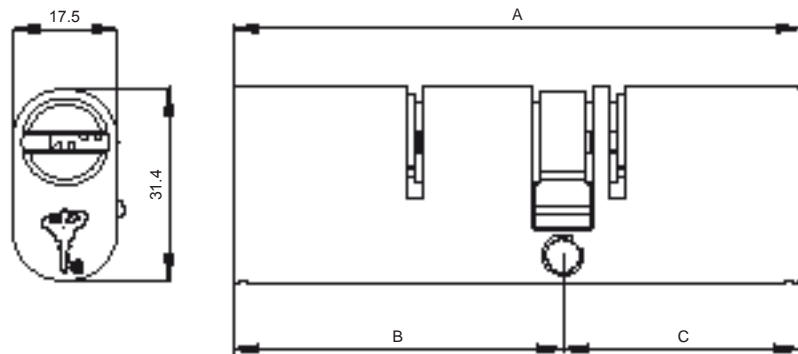
Cylinder options

- Classic, Interactive[®]+, MT5[®] platforms
- '3 IN 1' (changeable combination)
- Keyed different, keyed alike
- Master keyed
- Variety of thumbturns, cams and cogwheels
- Emergency cylinder with both sides permanently operational

Standards

Applicable to CEN

Double cylinder



U.K. Oval Profile Cylinder

Lengths Available (mm)

Double cylinder

A	B	C
62	31	31
66	33	33
70	35	35
71	33	38
75	35	40
76	33	43
80	35	45
80	40	40
85	35	45
85	40	40
90	35	55
90	40	50
90	45	45
95	35	60
95	40	55

A	B	C
95	45	50
100	35	65
100	40	60
100	45	55
100	50	50
105	35	70
105	40	65
105	45	60
105	50	55
110	40	70
110	45	65
110	50	60
115	45	70
115	50	65
120	50	70

Single cylinder

A	B
42.5	33
44.5	35
49.5	40
54.5	45
59.5	50
64.5	55
69.5	60
74.5	65
79.5	70

Note: For lengths from 40 mm up use standard plugs and additional spacers in order to get the required length. Other lengths are available by special order.
Not all lengths are available in all platforms.

Swiss Profile Cylinder



Application

Compatible with locks and lock cases using Swiss profile cylinder.

Operation

360° rotation by operating key or thumbturn. Standard double cylinder, full key insertion disengages other side.

Materials

Body and plug: high quality brass
Cam and cogwheel: steel
Pins: nickel silver and stainless steel

Standard finishes

Nickel satin, brass

Cylinder mechanism

Mul-T-Lock's unique, high precision pin tumbler system.

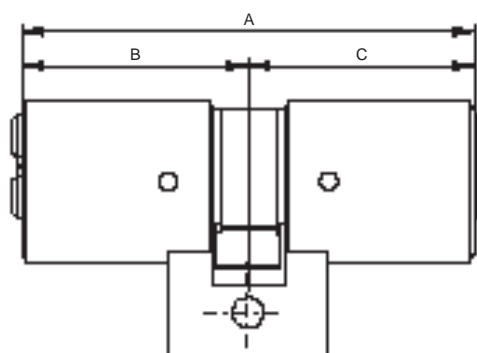
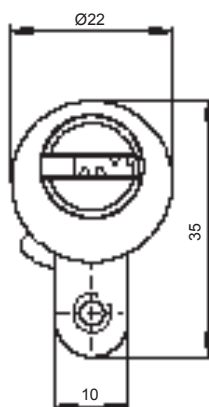
Keys

Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

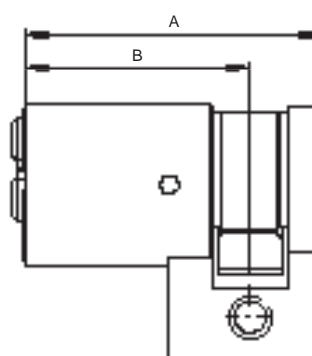
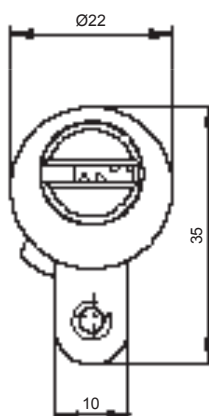
Cylinder options

- Classic, Interactive[®]+, MT5[®] platforms
- '3 IN 1' (changeable combination)
- Keyed different, keyed alike
- Master keyed
- Variety of thumbturns, cams and cogwheels
- Emergency cylinder with both sides permanently operational

Double cylinder



Si



Mortise Cylinder



Application

Compatible with residential and commercial door locksets. Interfaces with locksets of major brands (see available cams).

Can retrofit a 'Jumbo' cylinder with an adaptor ring.

Operation

360° rotation by operating key or thumbturn.

Materials

Body and plug: high quality brass
Cam: steel
Pins: nickel silver and stainless steel

Standard finish

Nickel chrome matt, nickel chrome, shiny brass

Special finishes

Antique bronze, black, antique brass, PVD

Cylinder mechanism

Mul-T-Lock's unique, high precision pin tumbler system.

Keys

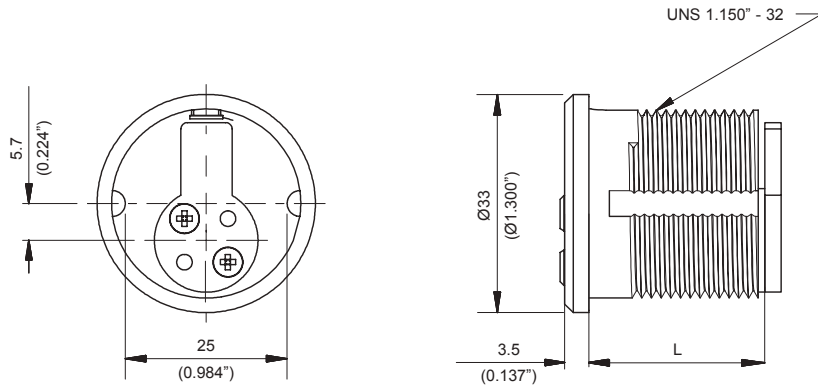
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options

- Classic, Interactive[®]+, MT5[®] platforms
- '3 IN 1' (changeable combination)
- Keyed different, keyed alike
- Master keyed
- Variety of cams

Standards

ISI950

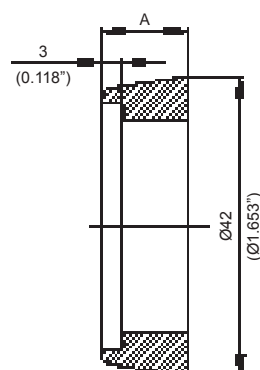


Length available (mm)

Cylinder	L	
	mm	Inch
1 ^{\"}	23.1	0.909
1 ¹ / ₈ ^{\"}	27.1	1.067
1 ¹ / ₄ ^{\"}	30.3	1.193
1 ³ / ₈ ^{\"}	33.5	1.318
1 ¹ / ₂ ^{\"}	36.7	1.445
1 ³ / ₄ ^{\"}	43.1	1.697
2 ^{\"}	49.5	1.949

(* Product with 4 chambers, not UL Listed.

Spacer ring



A	
mm	Inch
5.7*	0.224*
8.9	0.350
12.2	0.480
15.5	0.610

*Supplied as standard



Mortise Cylinder Cams

Options Available

<p>Adams Rite type P/N 85000020</p>	<p>Yale standard type P/N 85000014</p>	<p>Russwin type P/N 85000019</p>	<p>Falcon type P/N 85000041</p>	<p>Lockwood type P/N 85000054</p>
<p>Segal type P/N 86001008</p>	<p>Schlage type P/N 85000057</p>	<p>Sargent offset type P/N 85000082</p>	<p>Jumbo type P/N 85000112 (Required ring 85000157)</p>	<p>Baldwin type P/N 85000117</p>
<p>Yale type P/N 85000165</p>	<p>Vingcard type P/N 51075696</p>	<p>Yale type A-04 P/N 85000185</p>	<p>Yale type 2160 P/N 85000186</p>	

Cylinders

Rim Cylinder



Application

Compatible with residential and commercial surface mounted door locksets. Interfaces with locksets of major brands. Suits wide range of lock mechanisms.

Operation

360° rotation by operating key.

Materials

Body and plug: high quality brass
Tail: steel
Pins: nickel silver and stainless steel

Standard finish

Nickel chrome matt, nickel chrome, shiny brass

Special finishes

Antique bronze, black, antique brass, PVD

Cylinder mechanism

Mul-T-Lock's unique, high precision pin tumbler system.

Keys

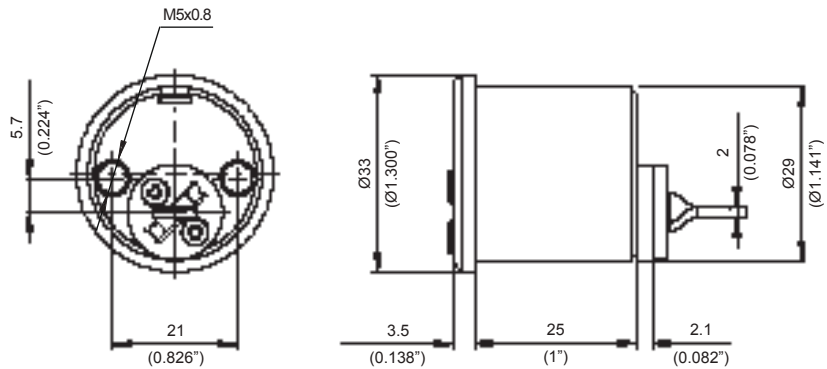
Reversible nickel silver key with plastic key head and colored insert. Also available in all nickel silver.

Cylinder options

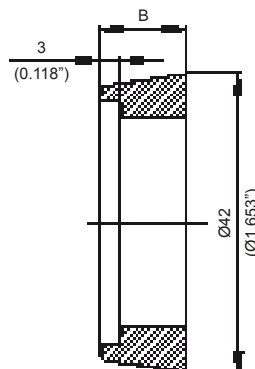
- Classic, Interactive[®]+, MT5[®] platforms
- '3 IN 1' (changeable combination)
- Keyed different, keyed alike
- Master keyed
- Variety of tails

Standards

ISI950



Spacer ring

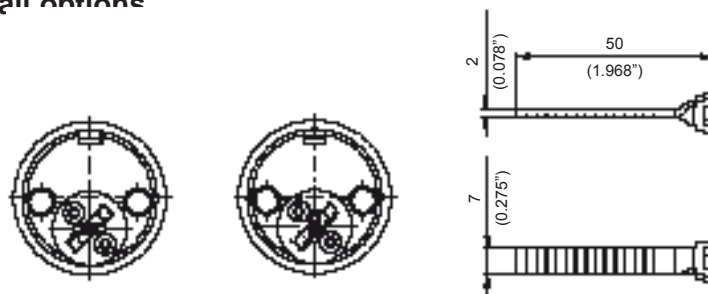


B	
mm	Inch
Flat ring**	
5.7*	0.224*
8.9	0.350
12.2	0.480
15.5	0.610

*Supplied as standard

**For rim application

Tail options



Euro Profile Modular Cylinder



With the Mul-T-Lock® Modular cylinder kit, you can build cylinders of any desired length, from 31 to 80 mm.

Based on “single cylinder” lengths of 31, 33 and 35 mm, the kit contains a vast assortment of parts for building cylinder sides of any length, and creating cylinders of unusual sizes such as 31X31, 33X78, or 35X40, etc.

Assembly is as easy as 1,2,3. Just pick out the parts required for the desired length, according to the attached Reference Table, and assemble them together.

The cylinders are built on a central two-sided bar, with each side identified by a number indicating the length group it belongs to.

Bars for double sided cylinders are marked “X,X” (2 digits), while bars for single sided cylinders are marked “X” (one digit)

Example

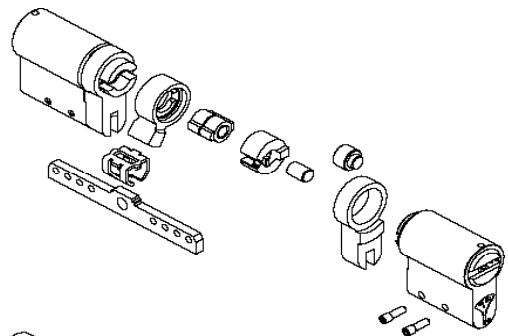
The following parts are required for building a 31X46 mm double cylinder:

- For the 31 mm side: 1 bar type 1, 1 body type 31, plug 31, and nothing else
- For the 46 mm side: 1 bar type 2, 1 body type 31, plug 31, 15 mm body spacer, 15 mm plug spacer and 15 mm plug adapter
- 1 bar adapter
- 4 threaded pins

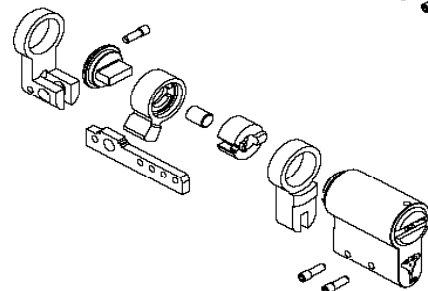
Note: Cylinder bodies and plugs should be ordered separately according to the profile (keyway) you are using, and based on the Reference Table.

To restock the kit, use special catalogue numbers.

Double cylinder



Single cylinder



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Euro Profile Modular Cylinder

Catalogue Part Numbers for Restocking

	Catalogue P/N	Description		Catalogue P/N	Description
1	84400001	Bar 1	32	88000061	Plug spacer Ø5x32 mm
2	84400002	Bar 2	33	88000062	Plug spacer Ø5x35 mm
3	84400003	Bar 3	34	88000063	Plug spacer Ø5x37 mm
4	84400004	Bar 4	35	88000064	Plug spacer Ø5x40 mm
5	84400005	Bar 5	36	88000065	Plug spacer Ø5x42 mm
6	84400008	Threaded pin	37	88000066	Plug spacer Ø5x45 mm
7	84400010	Bar adapter	38	88000067	Plug spacer Ø5x47 mm
8	84400011	Bar 1,1	39	81200100	Cam 30°
9	84400012	Bar 1,2	40	80000019	Coupling
10	84400013	Bar 1,3	41	84400130	Body spacer 5 mm
11	84400014	Bar 1,4	42	84400131	Body spacer 10 mm
12	84400015	Bar 1,5	43	84400132	Body spacer 15 mm
13	84400019	Bar 2,2	44	84400133	Body spacer 20 mm
14	84400020	Bar 2,3	45	84400134	Body spacer 25 mm
15	84400021	Bar 2,4	46	84400135	Body spacer 30 mm
16	84400022	Bar 2,5	47	84400136	Body spacer 35 mm
17	84400023	Bar 3,3	48	84400137	Body spacer 40 mm
18	84400024	Bar 3,4	49	84400138	Body spacer 45 mm
19	84400025	Bar 4,4	50	80100613	Plug adapter Ø5x10 mm
20	80000322	Plug spacer Ø7x2 mm	51	80100615	Plug adapter Ø5x15 mm
21	88000018	Plug spacer Ø7x5 mm	52	80100617	Plug adapter Ø5x20 mm
22	88000025	Plug spacer Ø7x7 mm	53	80002027	Plug adapter Ø5x25 mm
23	88000052	Plug spacer Ø5x10 mm	54	80002029	Plug adapter Ø5x30 mm
24	88000053	Plug spacer Ø5x12 mm	55	80002032	Plug adapter Ø5x35 mm
25	88000054	Plug spacer Ø5x15 mm	56	80002034	Plug adapter Ø5x40 mm
26	88000055	Plug spacer Ø5x17 mm	57	80002036	Plug adapter Ø5x45 mm
27	88000056	Plug spacer Ø5x20 mm	58	84400057	Allen key 1.5 mm
28	88000057	Plug spacer Ø5x22 mm	59	82600260	Emergency cam
29	88000058	Plug spacer Ø5x25 mm	60	87602150	STD cover 5 pin
30	88000059	Plug spacer Ø5x27 mm	61	84600053	Single CYL. coupling
31	88000060	Plug spacer Ø5x30 mm	62	51207080	Single CYL. adapter

Special Cylinder Applications

3 IN 1 cylinder

The '3 IN 1' cylinder has been designed by Mul-T-Lock® to allow users to easily change their key combinations through a simple and speedy process:

The user inserts and operates the next key in a sequence of three keys, and the introduction of each new key invalidates the previous key combination.

When all three combinations have been used, the cylinder may be re-keyed by an authorised Mul-T-Lock® locksmith.

The '3 IN 1' cylinder may be ordered with three separate duplicating cards for the green, yellow and red keys.



Flex Control

Simple. Convenient. Flexible

Mul-T-Lock's new Flex Control cylinder, operating from the High Security telescopic pin Interactive+ cylinder platform, offers a unique ability to control access in any business, retail or residential environment.

Mul-T-Lock's Flex Control cylinder offers:

Access restriction when and to whom you want

Flexible for use with all workers, whether domestic staff, temporary workers or full time employees for home or business owner

Simple to install and maintain – no wiring. Batteries or software. As simple as installing any regular cylinder

Additional keys can be supplied upon presentation of a unique registration card at an authorized Mul-T-Lock® dealer.

Feature and benefits at glance:

Choice - decide when and for how long blue key holder can gain access to the premises.

Efficient security: no need to replace the cylinder or collect keys to restrict access.

Cost effective – Replaces the need for additional lock that are often install to restrict access.

Flexible format – Suitable for cylinders of any length.

Patent Protection – Utilising the Interactive+ platform offering a high level of protection and security for any property.

With every Flex Control cylinder, you will receive a set of four color-coded keys:

White key – neutral key, for you and anyone you want to have full-time access, such as you and your family members or key employees

Blue key - for those you want to have limited access and at the times you decide

Red and Green keys - allow you to control the blue key holder's access by rotating the cylinder 90° clock wise or counter clock wise with either the red or green key

Supplied with a single magnetic strip card, printed with all key codes

The new Flex Control Cylinder can provide reassurance and controlled access to any premises in a simple 90° turn of the cylinder. By using the patent protected control keys provided, Mul-T-Lock® present a simple, cost effective way to control access rights for a business or home using trusted and proven mechanical technology.



Construction master cylinder

Mul-T-Lock® has developed a new-concept High Security construction master cylinder, that provides construction contractors with maximum convenience, while ensuring peace of mind for new property owners.

Contractors using the new product enjoy control of all apartments on the construction site - or even on several sites - with one master key.

Each cylinder in the system also has an owner key, provided to the owner when he/she moves into the apartment.

At this time a technician turns a special change key in the cylinder, disabling the contractor's master key. This procedure is not reversible.

This creative new solution is fully contained in the cylinder itself and requires no supplementary devices.



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Special Cylinder Features

Reinforced cylinder

Enhanced resistance to breaking attempts.



Emergency cylinder

Operated with keys inserted and rotated on opposite sides, enabling both sides to be permanently operational.



Break Secure cylinder

Patented Euro profile cylinder, specially developed by Mul-T-Lock® to meet a specific need: enhancing resistance to manipulation attacks. Unlike ordinary cylinders that tend to break in the middle when manipulated, allowing the door to be opened by attacker Break Secure snaps at the front. This keeps the door locked and the burglars outside, and permits the owners to open the cylinder with their original Mul-T-Lock® keys when they return.



Anti-ligature thumbturn with external override

Innovative thumbturn with emergency override mechanism, specially designed to address the risk of self-harm within psychiatric and probationary type accommodation facilities.

Allows occupant privacy, while enabling immediate access for medical or supervisory staff if necessary.



Cylinder Accessories

Thumbturn range



Ellipse thumbturn



Oval thumbturn



Round thumbturn

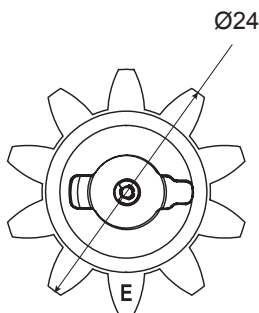
Anti-ligature thumbturn



Standard thumbturn

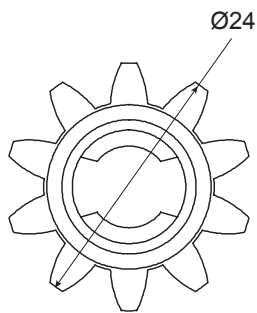


Cogwheels (diameter in mm)



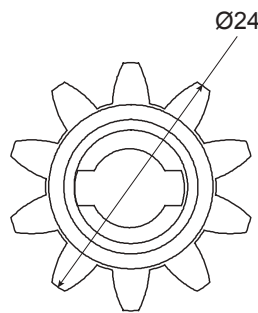
Z=10
m=2

P/N 82600280



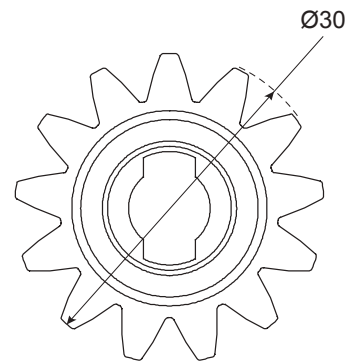
Z=10
m=2

P/N 80000461



Z=10
m=2

P/N 80001081



Z=13
m=2

P/N 89100011



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Cylinder Finishes

Standard finishes



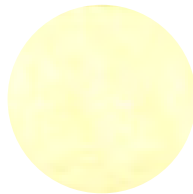
Nickel Satin (NST)



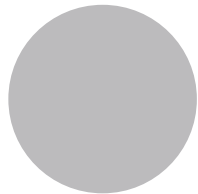
Electroplated Brass (EB/CB)
US4
BHMA606



Nickel Chrome Matt (NCM)
US26D
BHMA626

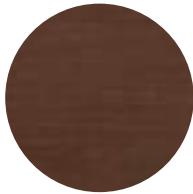


Shiny Brass (SB)
US3
BHMA605

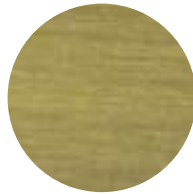


Nickel Chrome (NC)
US26
BHMA625

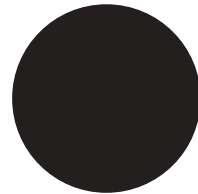
Special finishes



Dark (10B)
US10B
BHMA613



Antique Brass (ABP)
US5
BHMA609



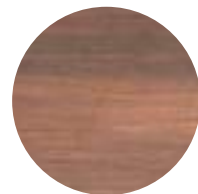
Black
US19
BHMA631



SBH



PVD



Antique Bronze (ABZ)

Notes:

- The colors above are for reference only and can vary from the original.
- Certain finishes are available on particular products only.
- Delivery times may vary according to type of finish.