

ARCHITECTURAL HARDWARE

Locking cylinders

*Keeping people safe and secure
where they live, work and visit.*



Comprehensive cylinder ranges for all applications

Cylinder lockcases

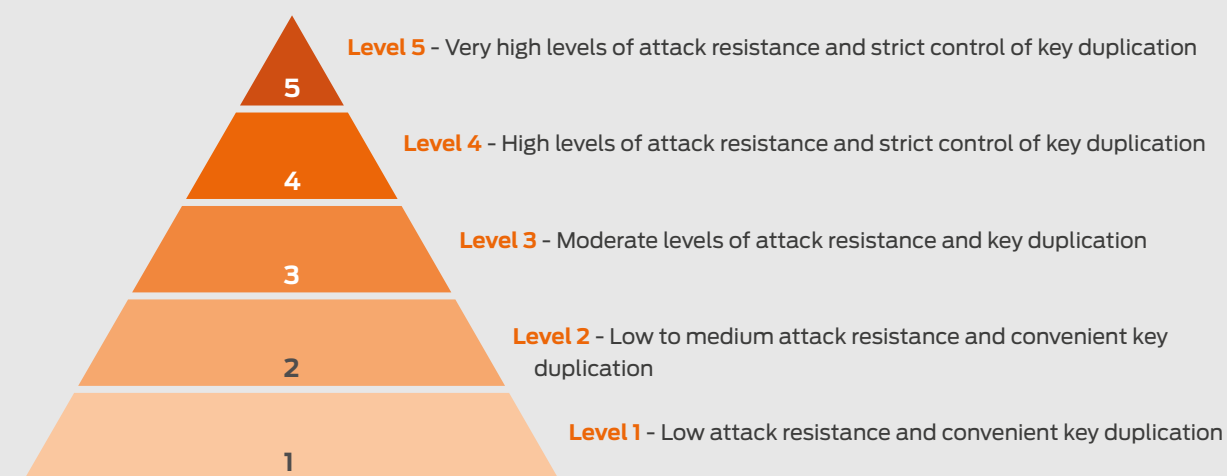
Cylinder locks are a very flexible and sophisticated means of providing security on most doors. The two part assembly uses a lockcase, which is usually morticed into the door, and a locking cylinder which is used to lock and unlock the lockcase. The cylinder lock has a number of advantages over other methods of door locking.

- Ability to select the most appropriate combination of lockcase and cylinder function
- Match the level of security to the precise needs of each door in the building
- Upgrade security as the needs of the building or its occupants change
- Enable sophisticated masterkeying and key control capabilities where access to multiple doors can be allowed or restricted to varying personnel



Performance Levels

Our multi-level approach to cylinder security ensures there is a solution for all projects, door applications and budgets.



Combining cylinders with lockcases

The operating characteristics of each lockcase can be adapted by the selection of the cylinder.

A single cylinder will, for example, provide key operation only from one side of the door. Whilst this might be suitable for a small store room in conjunction with a deadlock, it could result in a person being locked in. A cylinder with thumbturn however would provide a means of unlocking or locking a door from inside for convenience and privacy. In some cases, in a secure facility for example, such a feature may not be advantageous. When selecting the locking solution therefore it is important to consider the combined effect of the lock case and the cylinder.

Measuring Security

The security of any door application is a combination of many factors, including the door construction and physical environment surrounding the door.

However, the cylinder, is probably the most vulnerable element in the assembly and is therefore subject to severe requirements of resistance to physical attack and other aspects of security such as key control.

EN 1303:2005 is the European Standard which establishes assessment and test criteria for each cylinder to quantify its durability, key security and resistance to physical attack.



Kitemark in Practice

The BSI Kitemark is one of the most respected and trusted product certification marks throughout the world as it represents a symbol of quality and safety. To achieve Kitemark certification, a manufacturer is required to have a comprehensive quality management system combined with initial product type testing and regular audit testing.

Although the scheme is voluntary, Allegion is very supportive, believing that the Kitemark is a show of commitment to safety and quality and offers peace of mind to the customer.



ICIM Certified cylinder conforming to EN1303

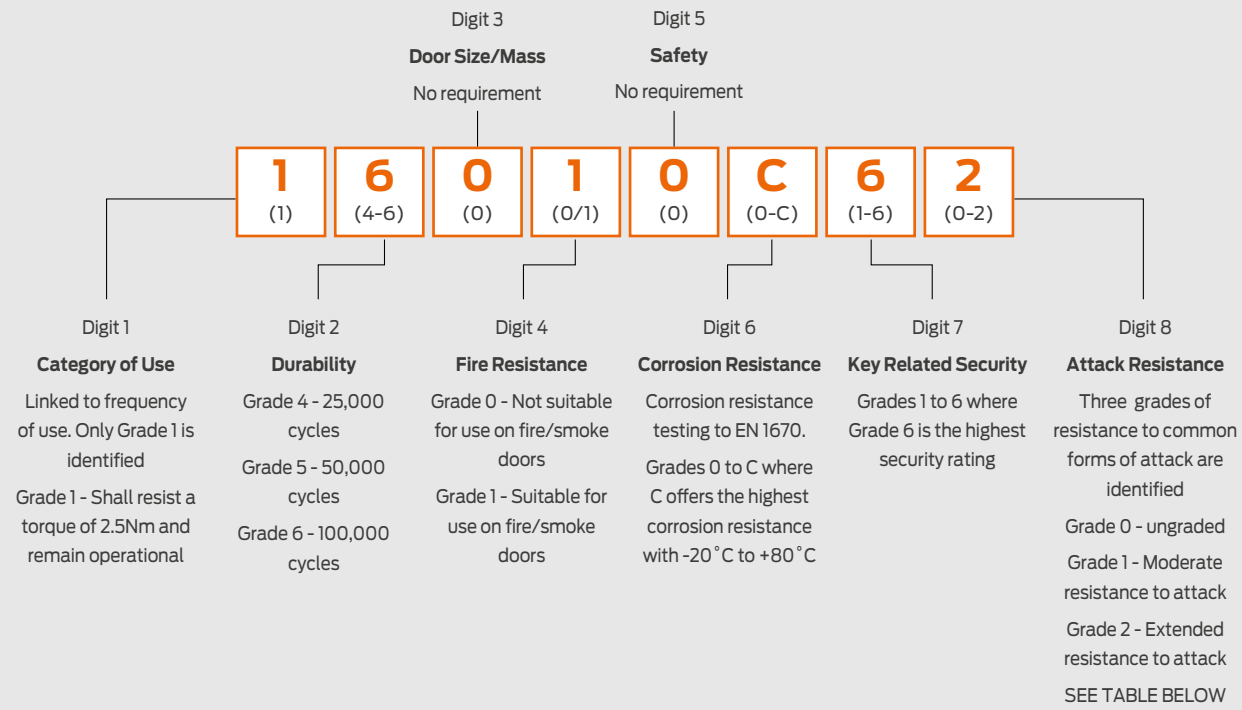
In July 2003, CISA became the very first company in Italy to obtain EN1303 based ICIM certification. Certification guarantees cylinder performance ascertained through documental checks of the technical specifications, in-company inspections to control production process, taking of samples to test either in the company or on the market and, most importantly, annual inspections.

This is so much more than a simple test report which determines the performance of only a few cylinders at one specific time.



BS EN 1303:2005

EN 1303:2005 classifies cylinders for locks using an 8 digit coding system. Features assessed include durability, fire resistance, key related security and attack resistance. The resulting 8 digit code can be used to directly compare the performance of one cylinder range against another.



Attack Resistance to EN1303

Type of attack	Digit 8 - Attack Resistance		
	Grade 0	Grade 1	Grade 2
Resistance to drilling (nett drilling time)	-	3 mins	5 mins
Resistance to chisel attack (number of defined blows)	-	30	40
Resistance to twisting attack (number of defined twists)	-	20	30
Resistance to plug/cylinder extraction (pull load)	-	15kN	15kN
Torque resistance of plug/cylinder	-	20Nm	30Nm

Guide – Selecting the right cylinder in the right place

Selecting the right cylinder system

In selecting the most appropriate cylinder system for any given application, a few simple factors should be considered:

- The need for physical security from forced entry.
- The balance between the convenience of getting duplicate keys cut and the security of strict key control whereby keys can only be obtained from the manufacturer under a letter of authority.
- The size of the system and the need for complex masterkeying capabilities.



Anti-barricade function

In some circumstances, such as secure institutions, care homes and psychiatric facilities it is desirable to prevent the inside thumbturn being used to forcibly hold the deadbolt in the locked position. A clutch mechanism within the cylinder isolates the thumbturn from the keyway so that in an emergency the key will override the thumbturn if it is being held.

Classroom function

If a teacher needs to leave a room full of pupils for a short while, they can lock the door from the outside to prevent unauthorised personnel from entering whilst being reassured the door can always be opened from the inside, even when locked. The cylinder can never be locked by the thumbturn from the inside.

Construction Keying

During the construction process, keys can easily become lost or stolen which can lead to loss of security. If Construction Keying is specified the building contractor will be issued with specific contractors keys for each of the cylinders. At the point of 'hand-over' the building owner/occupier inserts the proper 'system' keys into each cylinder and in the process renders the contractors keys inoperative.

Masterkeying

Masterkeying is the organisation of a keyed locking system where a hierarchy of access is produced. As the level of authority rises, so the ability to access cylinders in the system increases until access to all the cylinders in a system is available to a single Grand Masterkey.



Addressing physical security

An intruder seeking to break open a door will in most cases choose to "attack" the lock cylinder using the tools of the trade: drills, pliers, lock picks and other lock-forcing tools.

Methods of protecting against forced entry are 'defensive' features of passive security.

1 - Push resistance

A projecting cam on the cylinder can prevent it from being forced out of the lockcase by a hammer blow.

2 - Drill resistance

The incorporation of steel pins within the cylinder are designed to resist or delay attacks from drilling.

3 - Pick resistance

Special pin configurations can resist the manipulation of the pins in an attempt to simulate the key.

4 - Snap resistance

The inclusion of hardened steel laminates within the body of the cylinder can prevent violent twisting and snapping of the cylinder.

5 - Bump resistance

Bumping of cylinders is becoming more of an issue throughout Europe, particularly as there is no sign of forcible entry for homeowners to claim on insurance.

Patent protection

Since copyright protection on keys was abolished in 1999, it is now possible for anybody to produce and sell most types of keys. The only systems that can truly protect against illegal keyblank duplications are patented key systems. Manufacturers are able to take legal action against any authorized third parties who distribute copies of patented keys without permission.

Security Card

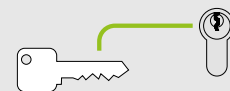
Offers a high level of service personalisation, giving further protection to the end user. The CISA authorised duplication system is the perfect solution for ensuring that keys can only be duplicated with the owner's consent on production of the security card. Supplied only with CISA standard differ products.



Keying – What keying arrangement do you need?

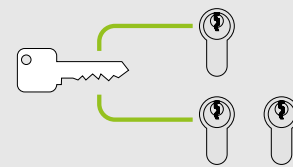
Keyed to Differ (KD)

All our cylinders are supplied “Keyed to Differ” as standard. This means each cylinder is operated by its own individual key (or keys) and no other keys will pass it.



Keyed Alike (KA)

A number of cylinders can be “Keyed Alike” so that the same key can be used to operate all locks, reducing the number of keys required to access different doors. Keyed Alike cylinders are ideal for areas where minimal key control is required.

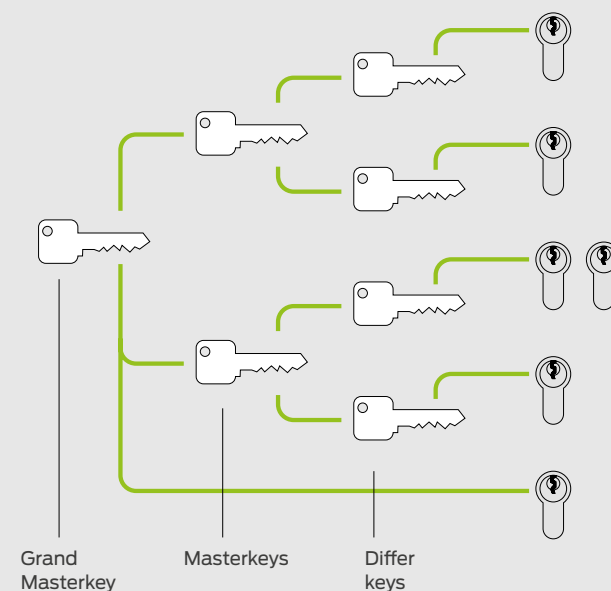


Masterkeying (MK)

The term “Masterkeying” is used generally to identify any system of cylinders in which a hierarchy of access has been established. In such a system certain keys will operate more than one cylinder.

In many larger buildings or groups of buildings such as a university campus, school or hospital it would be impractical to provide a different cylinder for each and every door. Even within a single department, authorised users could become the custodian of hundreds of keys.

By the careful design and organisation of cylinder pinning and key profiles, a hierarchy of keys can be developed which allows access to individual doors, groups of doors, all the doors on one floor or ultimately all the doors in the building using just one key.

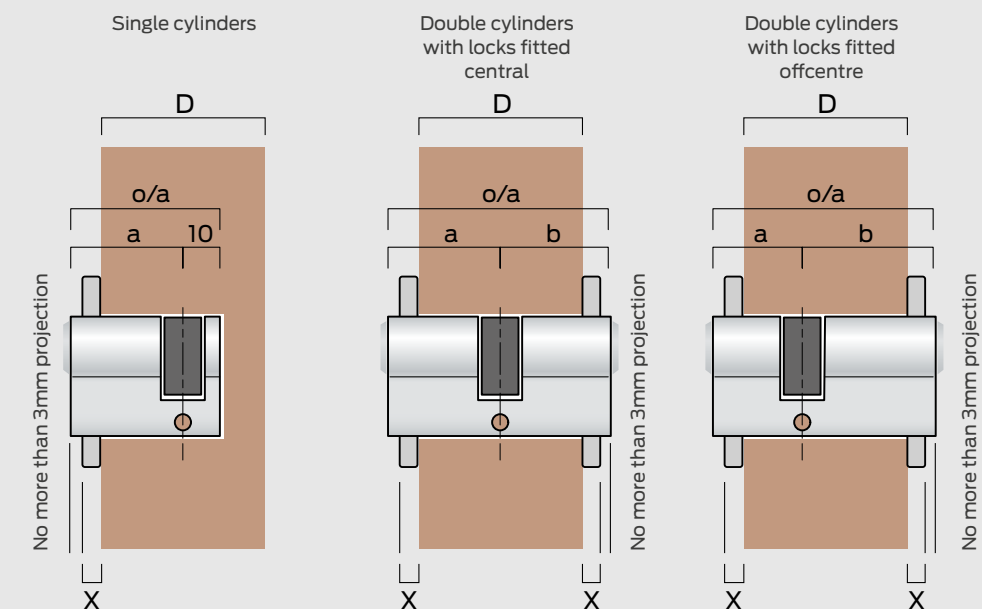


Sizing – Choosing the right cylinder length

The right length

Selecting the right length of cylinder is important not only for aesthetic reasons but also:

- To limit the amount of cylinder that projects from the face of the door hardware in order to protect it from attack by twisting and snapping
- To avoid the risk of hitting the cylinder with the hand when using lever handles



How to calculate

Crucial factors in establishing the correct length of cylinder are:

- Door thickness (D)
- Hardware thickness (X)
- Lock position in the door

For single cylinders

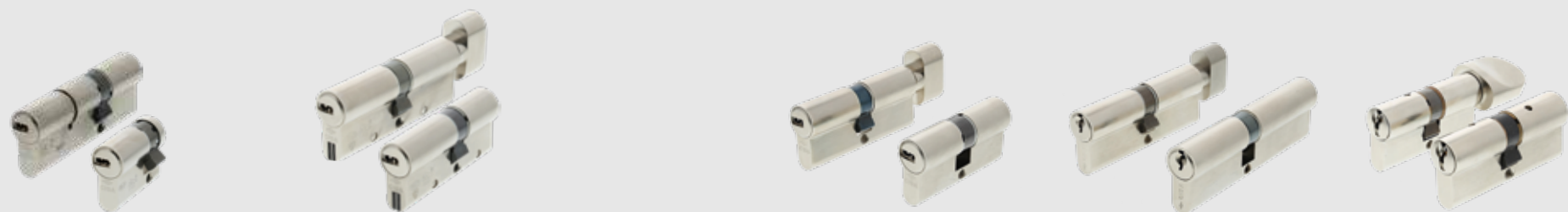
When ordering a single cylinder calculate the length from the lock centreline to the outer face of the hardware. This will be dimension ‘a’

For double cylinders

When ordering a double cylinder or cylinder with turn, calculate the length from the lock centreline to the outer face of the hardware on both sides. Remember, for locks which are fitted offcentre, dimensions a and b will differ.

In all cases you must select a cylinder which has the nearest dimensions to ensure that the cylinder lies flush or up to 3mm (max.) proud of the hardware.

Cylinders - Overview & Selector



Features and options	CISA Astral Tekno	CISA Astral S	CISA Astral	Briton C2000	Briton 75-29	Features and options
Performance Level	Level 4	Level 4	Level 3	Level 2	Level 3	
No. of pins	2 row 10 pin	10 pin	10 pin	5	6 + check pin	No. of pins
Push resistant projecting cam	■	■	■	■	■	Push resistant projecting cam
Anti-pick pins	■	■	■	■	■	Anti-pick pins
Anti-drill	■	■	■	■	■	Anti-drill
Bump resistant	■	■				Bump resistant
Snap resistant		■				Snap resistant
Patent protection	up to 2026				up to 2029	Patent protection
Protected key duplication	■	■	■		■	Protected key duplication
Code card required for key duplication	■	■	■			Code card required for key duplication
No. of differs	1.6 million	1.6 million	1.6 million	30,000	30,000	No. of differs
Masterkeying capacity	up to 63,000 keys	up to 63,000 keys	up to 63,000 keys	up to 1,000 keys	TBA*	Masterkeying capacity
EN 1303:2005 Classification	16 010 C 6 0	16 010 C 6 2	16 010 C 6 0	16 010 C 4 0	16 000 C 5 2	EN 1303:2005 Classification
Kitemarked TS007:2012		■				Kitemarked TS007:2012
Anti-barricade function	□	□	□		□	Anti-barricade function
Classroom function	□	□	□	□	□	Classroom function
Construction keying function	□	□	□		□	Construction keying function
Cylinder Types						Cylinder Types
Euro profile	■	■	■	■	■	Euro profile
Oval profile					■	Oval profile
Rim			■	■	■	Rim
Rim mortice/threaded			■		■	Rim mortice/threaded

* Dependent on the complexity of the masterkey system

■ Standard □ Available as an option/variant

Astral Tekno - High Security Euro Profile Cylinders

The Astral Tekno System is ideal for applications which require a secure locking solution and high quality at an affordable price. The patented system ensures key duplication is restricted as keys can only be duplicated at a CISA Tekno Centre or by CISA.

Astral Tekno is backwards compatible with Astral and Astral S cylinders on the same masterkey system. This flexibility allows precise levels of security to be set for each door within a building or campus.

Capable of producing over 63,000 cylinders per masterkey and up to 1.6 million differs, the Astral Tekno system is particularly suitable for applications requiring a complex and flexible masterkey solution such as hospitals, schools, universities and large commercial organisations.



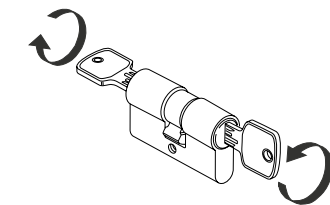
High levels of protection and controlled key duplication Performance Level 4

Principal Features & Benefits

- Level 4 Performance
- 10 Pin key biting system (6 active, 4 passive) produces over 1.6 million key differs
- Patented system providing restricted key duplication up to 2026 (EP1867810B1). Keys can only be duplicated by CISA Tekno Centre or by CISA
- Hardened steel pins and drivers in first position protect from drilling attack
- Pick resistant profile brass pins and drivers
- Brass cylinder body and plugs, sanded nickel and plated brass finish as standard with polished brass on request
- Patented BKP Bump resistant device fitted as standard
- Clutch type cam safety feature
- Reversible flat key with plastic key bow

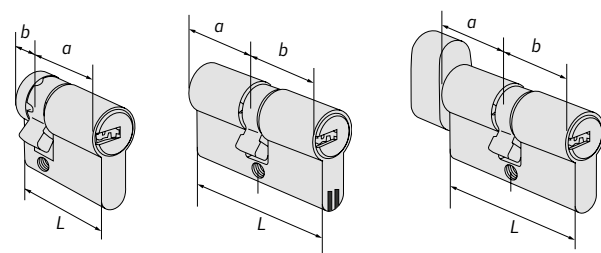


The built in clutch function as standard, allows the cylinder to be operated even if a key is inserted in the opposite side of the cylinder.



Primary options

- Multiple euro profile cylinder lengths
- Single cylinder / double cylinder / double cylinder with thumbturn
- Available in equal and offset sizes
- Cylinders as standard are Keyed to Differ but are also available:
 - Keyed Alike
 - Masterkey system
 - Grand Masterkey system
- Available in Nickel Plated and Satin Brass finishes



Additional Functions

- Classroom function
- Construction keying
- Anti-barricade function

Testing & Certification

EN 1303:2005 compliant - Grade 6 Durability
- Grade 6 Key Security
- Grade 0 Attack Resistance

ICIM EN 1303:2005 16010C62

Full Declaration of Performance available from our website at:

www.britondops.co.uk



What's in the box?

- Cylinder
- Cylinder fixing screw
- Astral Tekno Security Card
- 3 keys
- Operating & maintenance instructions

CISA - Astral Tekno Euro Profile Cylinders



Single cylinders

Key operation from one side only. Check cylinder length required.

Product Ref:	Function/description	Finishes
OM314.02	Euro Single 30/10 (39.5mm Overall)	add suffix:
OM314.03	Euro Single 40/10 (49.5mm Overall)	.00 for SB
OM314.07	Euro Single 35/10 (44.5mm Overall)	.12 for NP



Double cylinders - Equal sides

Key operation from both sides. Check cylinder length required.

Product Ref:	Function/description	Finishes
OM311.07	Euro Double 30/30 (60mm Overall)	
OM311.13	Euro Double 35/35 (70mm Overall)	add suffix:
OM311.18	Euro Double 40/40 (80mm Overall)	.00 for SB
OM311.29	Euro Double 45/45 (90mm Overall)	.12 for NP
OM311.23	Euro Double 50/50 (100mm Overall)	



Offset Double cylinders - Unequal sides

Key operation from both sides. Check cylinder length and offset required.

Product Ref:	Function/description	Finishes
OM311.17	Euro Double 30/50 (80mm Overall)	
OM311.19	Euro Double 35/45 (80mm Overall)	
OM311.20	Euro Double 30/60 (90mm Overall)	
OM311.21	Euro Double 40/50 (90mm Overall)	
OM311.25	Euro Double 40/60 (100mm Overall)	
OM311.27	Euro Double 30/45 (75mm Overall)	add suffix:
OM311.28	Euro Double 35/40 (75mm Overall)	.00 for SB
OM311.30	Euro Double 40/45 (85mm Overall)	.12 for NP
OM311.31	Euro Double 35/50 (85mm Overall)	
OM311.32	Euro Double 35/55 (90mm Overall)	
OM311.42	Euro Double 40/55 (95mm Overall)	
OM311.43	Euro Double 45/55 (100mm Overall)	

Please Note:

Astral Tekno cylinders may also be ordered as part of a masterkeyed suite. Please contact us for further information.



Double cylinder with thumbturn - Equal sides

Key operation from one side and thumbturn operation on the other. Check cylinder length required.

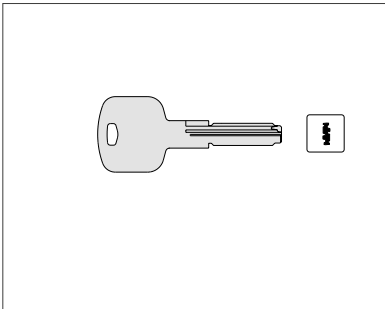
Product Ref:	Function/description	Finishes
OM312.07	Euro Cylinder & Turn 30/30 (60mm Overall)	
OM312.13	uro Cylinder & Turn 35/35 (70mm Overall)	add suffix:
OM312.18	Euro Cylinder & Turn 40/40 (80mm Overall)	.00 for SB
OM312.29	Euro Cylinder & Turn 45/45 (90mm Overall)	.12 for NP



Offset Double cylinder with thumbturn - Unequal sides

Key operation from one side and thumbturn operation on the other. Check cylinder length required and thumbturn side.

Product Ref:	Function/description	Finishes
OM312.19	Euro Cylinder & Turn 35/45 (80mm Overall)	
OM312.20	Euro Cylinder & Turn 40/50 (90mm Overall)	
OM312.42	Euro Cylinder & Turn 40/55 (95mm Overall)	add suffix:
OM312.43	Euro Cylinder & Turn 45/55 (100mm Overall)	.00 for SB
OM312.84	Euro Cylinder & Turn 45/40 (85mm Overall)	.12 for NP
OM312.85	Euro Cylinder & Turn 45/35 (80mm Overall)	



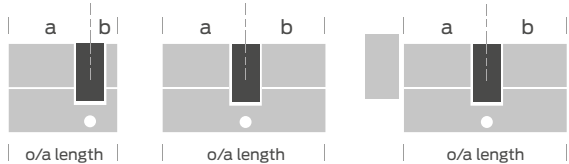
Astral Tekno Keys and options

Product Ref:	Function/description
OM.KEY	Extra Servant (Differ) Keys Ordered Later
CI PASS ASTRAL TEKNO	Keyed Alike Charge (Each Cylinder Side)
M.OM.D	Servant (Differ) Keys Supplied With Order
M.OM.M	Servant (Master) Keys Supplied With Order

Cylinder sizes are stated in the tables above in the form:

Euro Double a/b (o/a length).

e.g. Euro Double 30/30(60mm overall)



Astral S - High Security Euro Profile Cylinders

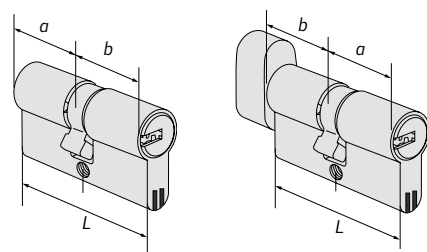
The Astral S system is a range of kitemarked cylinders that have been designed to offer protection from the most common forms of attack, including bumping, snapping, extraction and drilling, making it ideal for residential and commercial applications.

Astral S and Astral cylinders can be combined within the same masterkey system, providing the higher attack resistance of Astral S on the more vulnerable doors.



Primary options

- Multiple euro profile cylinder lengths
- Double cylinder / double cylinder with thumbturn
- Available in equal and offset sizes
- Cylinders as standard are Keyed to Differ but are also available:
 - Keyed Alike
 - Masterkey system
 - Grand Masterkey system
- Available in Nickel Plated and Satin Brass finishes



Additional Functions

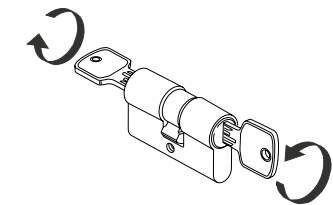
- Classroom function
- Construction keying
- Anti-barricade function

Patented anti-snap attack resistance - Performance Level 4

Principal Features & Benefits

- Level 4 Performance
- 10 Pin key biting system produces over 1.6 million key differs
- Mushroom shaped driver profile provides "pick resistance"
- Hardened steel pins and drivers throughout protect from drilling and give high durability
- Brass cylinder body and plugs, satin brass or satin nickel finish as standard
- BKP Bump resistant device fitted as standard
- Patented laminated steel core made of 6 rigid segments and 1 flexible segment extends throughout the entire length of the cylinder and provides snap resistance to both flexural and pulling test. The core is visible at both ends of a double cylinder to provide an additional visual deterrent.
- Self lubricating projecting DIN standard sintered steel cam provides push resistance to prevent the cylinder being forced out of the lockcase
- Clutch type cam safety feature (see below)
- Phosphor bronze springs
- Hardened steel inserts in the body & core prevent drilling attack
- Reversible flat key 2.9mm thick with nickel plated finish
- Code card protected key duplication

The built in clutch function as standard, allows the cylinder to be operated even if a key is inserted in the opposite side of the cylinder.



Testing & Certification

EN 1303:2005 compliant - Grade 6 Durability
 - Grade 6 Key Security
 - Grade 2 Attack Resistance

Kitemarked to TS007:2012 - 2 Star

ICIM EN 1303:2005 16010C62

Full Declaration of Performance available from our website at:

www.britondops.co.uk



What's in the box?

- Cylinder
- Cylinder fixing screw
- Astral S Security Card
- 3 keys
- Operating & maintenance instructions

CISA - Astral S Euro Profile Cylinders



Double cylinders - Equal sides

Key operation from both sides. Check cylinder length required.

Product Ref:	Function/description	Finishes
OA3S1.07	Euro Double 30/30 (59mm Overall)	
OA3S1.13	Euro Double 35/35 (69mm Overall)	add suffix: .00 for SB .12 for NP
OA3S1.18	Euro Double 40/40 (79mm Overall)	
OA3S1.29	Euro Double 45/45 (89mm Overall)	
OA3S1.23	Euro Double 50/50 (99mm Overall)	



Offset Double cylinders - Unequal sides

Key operation from both sides. Check cylinder length and offset required.

Product Ref:	Function/description	Finishes
OA3S1.12	Euro Double 30/40 (69mm Overall)	
OA3S1.17	Euro Double 30/50 (79mm Overall)	
OA3S1.19	Euro Double 35/45 (79mm Overall)	
OA3S1.20	Euro Double 30/60 (89mm Overall)	
OA3S1.21	Euro Double 40/50 (89mm Overall)	
OA3S1.25	Euro Double 40/60 (99mm Overall)	add suffix: .00 for SB .12 for NP
OA3S1.28	Euro Double 35/40 (74mm Overall)	
OA3S1.30	Euro Double 40/45 (84mm Overall)	
OA3S1.31	Euro Double 35/50 (84mm Overall)	
OA3S1.32	Euro Double 35/55 (89mm Overall)	
OA3S1.39	Euro Double 45/50 (94mm Overall)	
OA3S1.42	Euro Double 40/55 (94mm Overall)	
OA3S1.43	Euro Double 45/55 (99mm Overall)	

Please Note:

Astral S cylinders may also be ordered as part of a masterkeyed suite. Please contact us for further information.



Double cylinder with thumbturn - Equal sides

Key operation from one side and thumbturn operation on the other. Check cylinder length required.

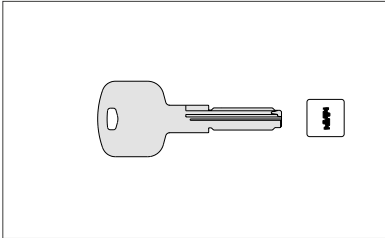
Product Ref:	Function/description	Finishes
OA3S2.07	Euro Cylinder & Turn 30/30 (59mm Overall)	
OA3S2.13	Euro Cylinder & Turn 35/35 (59mm Overall)	add suffix: .00 for SB .12 for NP
OA3S2.18	Euro Cylinder & Turn 40/40 (79mm Overall)	
OA3S2.29	Euro Cylinder & Turn 45/45 (89mm Overall)	
OA3S2.23	Euro Cylinder & Turn 50/50 (99mm Overall)	



Offset Double cylinder with thumbturn - Unequal sides

Key operation from one side and thumbturn operation on the other. Check cylinder length required and thumbturn side.

Product Ref:	Function/description	Finishes
OA3S2.19	Euro Cylinder & Turn 35/45 (79mm Overall)	
OA3S2.21	Euro Cylinder & Turn 40/50 (89mm Overall)	
OA3S2.42	Euro Cylinder & Turn 40/55 (94mm Overall)	add suffix: .00 for SB .12 for NP
OA3S2.43	Euro Cylinder & Turn 45/55 (99mm Overall)	
OA3S2.84	Euro Cylinder & Turn 45/40 (84mm Overall)	
OA3S2.85	Euro Cylinder & Turn 45/35 (79mm Overall)	



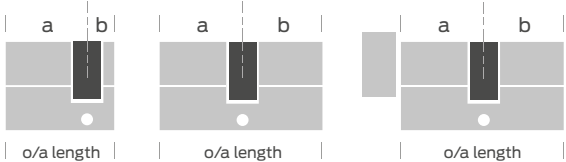
Astral S Keys and options

Product Ref:	Function/description
M.OA.M	Astral S Master Keys
KEY.OA	Astral S Extra Servant (Differ) Keys Ordered Later
M.OA.D	AP3 Extra Servant (Differ) Keys Supplied With Order

Cylinder sizes are stated in the tables above in the form:

Euro Double a/b (o/a length).

e.g. Euro Double 30/30(59mm overall)



Astral – Medium Security Cylinder Range

Astral cylinders are the ultimate convenience solution for masterkey systems with a possibility of up to 63,000 different cylinders on a single system, making them ideal for small commercial access management applications. In addition, the system can be interchanged with Astral S where extra protection is required.

Astral incorporates a wide range of cylinder types, ensuring your masterkey system can encompass different types of lock on the same masterkeys.



A comprehensive range of cylinders – Performance Level 3

Principal Features & Benefits

- Level 3 Performance
- 10 Pin key bitting system produces over 1.6 million key differs
- Hardened steel insert pin in body and hardened steel pin and driver in first pin position prevents drilling attack
- Bronze pins and brass drivers have pick resistant profiles
- Brass cylinder body and plugs, satin brass or satin nickel finish as standard
- Self lubricating projecting DIN standard sintered steel cam provides push resistance to prevent the cylinder being forced out of the lockcase
- Hardened steel inserts in the body & core prevent drilling attack
- Reversible flat key 2.9mm thick with nickel plated finish
- Code card protected key duplication
- Compatible with Astral S and Astral Tekno cylinders which allows combinations of security levels under the same masterkey system

Primary options

- Multiple euro profile cylinder lengths
- Single cylinder / double cylinder / double cylinder with thumbturn
- Available in equal and offset sizes
- Rim and Rim Mortice cylinders also available
- Cylinders as standard are Keyed to Differ but are also available:
 - Keyed Alike
 - Masterkey system
 - Grand Masterkey system
- Available in Nickel Plated and Satin Brass finishes

Additional Functions

- Classroom function
- Construction keying
- Anti-barricade function

Testing & Certification

EN 1303:2005 compliant – Grade 6 Durability
 – Grade 6 Key Security
 – Grade 0 Attack Resistance

ICIM EN 1303:2005 16010C62

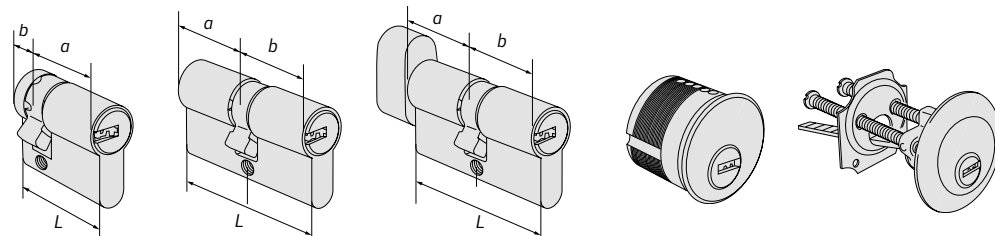
Full Declaration of Performance available from our website at:

www.britondops.co.uk



What's in the box?

- Cylinder
- Cylinder fixing screw
- Astral Security Card
- 3 keys
- Operating & maintenance instructions



CISA - Astral Euro Profile Cylinders



Single cylinders

Key operation from one side only. Check cylinder length required.

Product Ref:	Function/description	Finishes
OA314.02	Euro Single 30/10 (39.5mm Overall)	add suffix:
OA314.03	Euro Single 40/10 (49.5mm Overall)	.00 for SB
OA314.07	Euro Single 35/10 (44.5mm Overall)	.12 for NP



Double cylinders - Equal sides

Key operation from both sides. Check cylinder length required.

Product Ref:	Function/description	Finishes
OA310.07	Euro Double Cylinder 30/30 (59mm Overall)	add suffix: .00 for SB .12 for NP
OA310.13	Euro Double Cylinder 35/35 (69mm Overall)	
OA310.18	Euro Double Cylinder 40/40 (79mm Overall)	
OA310.29	Euro Double Cylinder 45/45 (89mm Overall)	
OA310.23	Euro Double Cylinder 50/50 (99mm Overall)	



Offset Double cylinders - Unequal sides

Key operation from both sides. Check cylinder length and offset required.

Product Ref:	Function/description	Finishes
OA310.12	Euro Double 30/40 (69mm Overall)	add suffix: .00 for SB .12 for NP
OA310.17	Euro Double 30/50 (79mm Overall)	
OA310.19	Euro Double 35/45 (79mm Overall)	
OA310.20	Euro Double 30/60 (89mm Overall)	
OA310.21	Euro Double 40/50 (89mm Overall)	
OA310.25	Euro Double 40/60 (99mm Overall)	
OA310.28	Euro Double 35/40 (74mm Overall)	
OA310.30	Euro Double 40/45 (84mm Overall)	
OA310.31	Euro Double 35/50 (84mm Overall)	
OA310.32	Euro Double 35/55 (89mm Overall)	
OA310.42	Euro Double 40/55 (94mm Overall)	
OA310.43	Euro Double 45/55 (99mm Overall)	

Please Note:

Astral cylinders may also be ordered as part of a masterkeyed suite. Please contact us for further information.



Double cylinder with thumbturn - Equal sides

Key operation from one side and thumbturn operation on the other. Check cylinder length required.

Product Ref:	Function/description	Finishes
OA312.07	Euro Cylinder & Turn 30/30 (59mm Overall)	add suffix:
OA312.13	Euro Cylinder & Turn 35/35 (69mm Overall)	.00 for SB
OA312.18	Euro Cylinder & Turn 40/40 (79mm Overall)	.12 for NP



Offset Double cylinder with thumbturn - Unequal sides

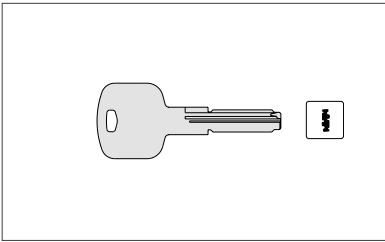
Key operation from one side and thumbturn operation on the other. Check cylinder length required and thumbturn side.

Product Ref:	Function/description	Finishes
OA312.19	Euro Cylinder & Turn 35/45 (79mm Overall)	add suffix: .00 for SB .12 for NP
OA312.21	Euro Cylinder & Turn 40/50 (89mm Overall)	
OA312.42	Euro Cylinder & Turn 40/55 (94mm Overall)	
OA312.43	Euro Cylinder & Turn 45/55 (99mm Overall)	
OA312.84	Euro Cylinder & Turn 45/40 (84mm Overall)	
OA312.85	Euro Cylinder & Turn 45/35 (79mm Overall)	



Rim & Rim mortice cylinders

Product Ref:	Function/description	Finishes
OA510.50	Rim Night Latch Cylinder	add suffix:
OA810.00	Single Screw In (Threaded) Cylinders	.00 for SB .12 for NP



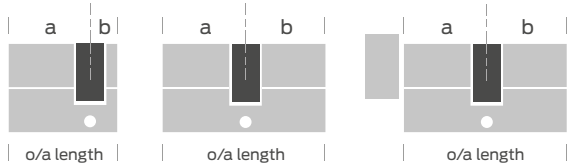
Astral Keys and options

Product Ref:	Function/description
OA.KEY	Astral Extra Servant (Differ) Keys Ordered Later
M.OA.D	Astral Extra Servant (Differ) Keys Supplied with Order
M.OA.M	Astral Master Keys

Cylinder sizes are stated in the tables above in the form:

Euro Double a/b (o/a length).

e.g. Euro Double 30/30(59mm overall)



C2000 - Basic Security and Masterkeying

For applications where strict control over key duplication is not such a high priority, the C2000 system provides an ideal solution with simple masterkeying requirements. C2000 cylinders offer a high level of physical security but with the added convenience of local key cutting.



Balancing key control and convenience - Performance Level 2

Principal Features & Benefits

- Level 2 Performance
- 5 Pin key biting system produces over 30,000 key differs
- Hardened steel pin and driver in first position protects from drilling attack
- Brass pins and drivers have pick resistant profiles
- Brass cylinder body and plugs, satin brass, polished brass or satin nickel finish as standard
- Paracentral keyway and mushroom shaped drivers provide 'pick resistance'
- Self lubricating projecting DIN standard sintered steel cam provides push resistance to prevent the cylinder being forced out of the lockcase
- Phosphor bronze springs
- Keys in brass alloy 2.2mm thick with nickel plated finish
- 3 keys supplied as standard

Primary options

- Multiple euro profile cylinder lengths
- Single cylinder / double cylinder / double cylinder with thumbturn
- Available in equal and offset sizes
- Rim and Rim Mortice cylinders also available
- Cylinders as standard are Keyed to Differ but are also available:
 - Keyed Alike
 - Masterkey system
 - Grand Masterkey system
- Available in Nickel Plated and Satin Brass finishes

Additional Functions

- Classroom function
- Construction keying
- Anti-barricade function

Testing & Certification

EN 1303:2005 compliant - Grade 6 Durability
 - Grade 4 Key Security
 - Grade 0 Attack Resistance

ICIM EN 1303:2005 16010C62

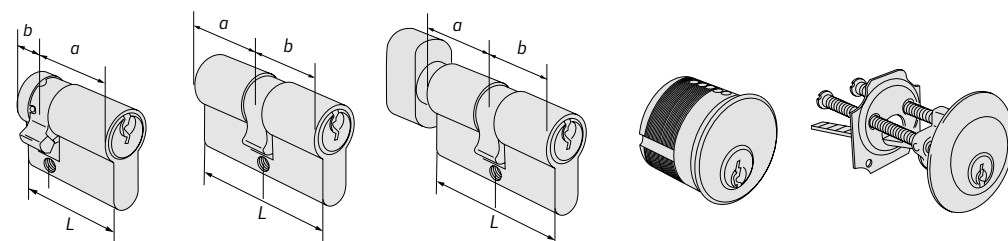
Full Declaration of Performance available from our website at:

www.britondops.co.uk



What's in the box?

- Cylinder
- Cylinder fixing screw
- 3 keys
- Operating & maintenance instructions



Briton - C2000 Euro Profile Cylinders



Single cylinders

Key operation from one side only. Check cylinder length required.

Product Ref:	Function/description	Finishes
OG304.02	Euro Single 30/10 (39.5mm Overall)	add suffix:
OG304.03	Euro Single 40/10 (49.5mm Overall)	.00 for SB
OG304.07	Euro Single 35/10 (44.5mm Overall)	.12 for NP



Double cylinders - Equal sides

Key operation from both sides. Check cylinder length required.

Product Ref:	Function/description	Finishes
OG300.07	Euro Double Cylinder 30/30 (59mm Overall)	
OG300.13	Euro Double 35/35 (69mm Overall)	add suffix:
OG300.18	Euro Double 40/40 (79mm Overall)	.00 for SB
OG300.29	Euro Double 45/45 (89mm Overall)	.12 for NP
OG300.23	Euro Double 50/50 (99mm Overall)	



Offset Double cylinders - Unequal sides

Key operation from both sides. Check cylinder length and offset required.

Product Ref:	Function/description	Finishes
OG300.12	Euro Double 30/40 (69mm Overall)	
OG300.17	Euro Double 30/50 (79mm Overall)	
OG300.19	Euro Double 35/45 (79mm Overall)	
OG300.20	Euro Double 30/60 (89mm Overall)	
OG300.21	Euro Double 40/50 (89mm Overall)	add suffix:
OG300.25	Euro Double 40/60 (99mm Overall)	.00 for SB
OG300.28	Euro Double 35/40 (74mm Overall)	.12 for NP
OG300.30	Euro Double 40/45 (84mm Overall) -	
OG300.31	Euro Double 35/50 (84mm Overall)	
OG300.32	Euro Double 35/55 (89mm Overall)	
OG300.42	Euro Double 40/55 (94mm Overall)	
OG300.43	Euro Double 45/55 (99mm Overall)	
OG300.54	Euro Double 45/60 (104mm Overall)	

Please Note:

Briton C2000 cylinders may also be ordered as part of a masterkeyed suite. Please contact us for further information.



Double cylinder with thumbturn - Equal sides

Key operation from one side and thumbturn operation on the other. Check cylinder length required.

Product Ref:	Function/description	Finishes
OG302.07	Euro Cylinder & Turn 30/30 (59mm Overall)	add suffix:
OG302.13	Euro Cylinder & Turn 35/35 (69mm Overall)	.00 for SB
OG302.18	Euro Cylinder & Turn 40/40 (79mm Overall)	.12 for NP



Offset Double cylinder with thumbturn - Unequal sides

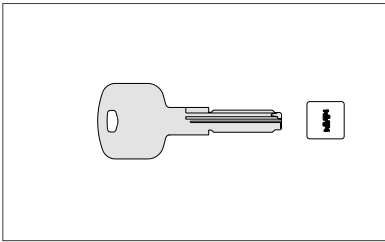
Key operation from one side and thumbturn operation on the other. Check cylinder length required and thumbturn side.

Product Ref:	Function/description	Finishes
OG302.19	Euro Cylinder & Turn 35/45 (79mm Overall)	
OG302.21	Euro Cylinder & Turn 40/50 (89mm Overall)	
OG302.42	Euro Cylinder & Turn 40/55 (94mm Overall)	add suffix:
OG302.43	Euro Cylinder & Turn 45/55 (99mm Overall)	.00 for SB
OG302.84	Euro Cylinder & Turn 45/40 (84mm Overall)	.12 for NP
OG302.85	Euro Cylinder & Turn 45/35 (79mm Overall)	



Rim & Rim mortice cylinders

Product Ref:	Function/description	Finishes
OG500.50	Rim Night Latch Cylinder	add suffix:
O2900.00	Single Screw In (Threaded) Cylinders	.00 for SB
* differ keys not included		.12 for NP



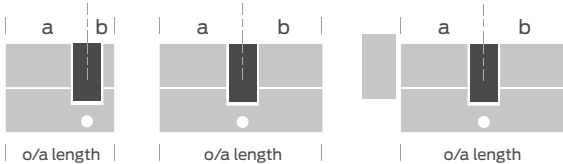
C2000 Keys and options

Product Ref:	Function/description
OG.KEY	C2000 Extra Servant (Differ) Keys Ordered Later
M.OG.D	C2000 Extra Servant (Differ) Keys Supplied with Order
M.OG.M	C2000 Master Keys

Cylinder sizes are stated in the tables above in the form:

Euro Double a/b (o/a length).

e.g. Euro Double 30/30(59mm overall)



75-29 - Basic Security and Masterkeying

In addition to the 6 conventional cylinder pins, the Briton 75-29 Series incorporates a unique 'check pin' with a small hook on its tip. The tip of the pin corresponds to the special undercut on the key profile. Only with the correct key inserted is the 'check pin' lifted clear and the cylinder is free to rotate.



Patented key protection to 2029 - Performance Level 3

Principal Features & Benefits

- Level 3 Performance
- Key profile with patented technology which prevents unauthorised key duplication to 2029.
- Key blanks carry a lifetime warranty
- 'Through-cut' technology utilises a unique process to produce the patented undercut key design
- 6 pin tumbler system with additional 'check pin' for extra security
- Raised plug with unique slotted face for improved aesthetics
- Plug finish matches the cylinder body which is available in satin nickel, polished chrome and polished brass finishes to match most quality hardware ranges
- Thumbturn design provides an easy grip and is compatible with most hardware designs
- Backwards compatible with Briton 7500 Series
- Keys in brass alloy 2.2mm thick with nickel plated finish
- 3 keys supplied as standard

Primary options

- Multiple euro profile cylinder lengths
- Single cylinder / double cylinder / double cylinder with thumbturn
- Available in equal and offset sizes
- Rim and Rim Mortice cylinders also available
- Cylinders as standard are Keyed to Differ but are also available:
 - Keyed Alike
 - Masterkey system
 - Grand Masterkey system
- Available in Nickel Plated and Satin Brass finishes

Additional Functions

- Classroom function
- Construction keying
- Anti-barricade function

Testing & Certification

EN 1303:2005 compliant - Grade 6 Durability
 - Grade 4 Key Security
 - Grade 0 Attack Resistance

ICIM EN 1303:2005 16010C62

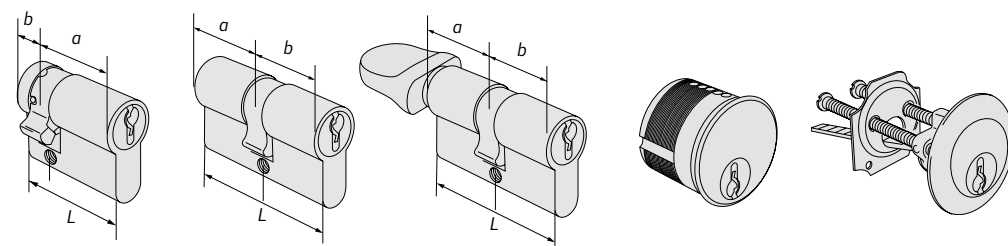
Full Declaration of Performance available from our website at:

www.britondops.co.uk



What's in the box?

- Cylinder
- Cylinder fixing screw
- 3 keys
- Operating & maintenance instructions



Briton - 75-29 Euro Profile Cylinders



Single cylinders

Key operation from one side only. Check cylinder length required.

Product Ref:	Function/description	Finishes
PXT45-K-ES40	Euro Single 30/10	add suffix:
PXT45-K-ES45	Euro Single 35/10	.00 for SB
PXT45-K-ES50	Euro Single 40/10	.12 for NP



Double cylinders - Equal sides

Key operation from both sides. Check cylinder length required.

Product Ref:	Function/description	Finishes
PXT45-K-ED60	Euro Double 30/30 (60mm Overall)	
PXT45-K-ED70	Euro Double 35/35 (70mm Overall)	add suffix:
PXT45-K-ED80	Euro Double 40/40 (80mm Overall)	.00 for SB
PXT45-K-ED45.45	Euro Double 45/45 (90mm Overall)	.12 for NP
PXT45-K-ED50.50	Euro Double 50/50 (100mm Overall)	



Offset Double cylinders - Unequal sides

Key operation from both sides. Check cylinder length and offset required.

Product Ref:	Function/description	Finishes
PXT45-K-ED35.45	Euro Double 35/45 (80mm Overall)	
PXT45-K-ED40.45	Euro Double 40/45 (85mm Overall)	
PXT45-K-ED40.50	Euro Double 40/50 (90mm Overall)	
PXT45-K-ED40.55	Euro Double 40/55 (95mm Overall)	
PXT45-K-ED45.55	Euro Double 45/55 (100mm Overall)	



Double cylinder with thumbturn - Equal sides

Key operation from one side and thumbturn operation on the other. Check cylinder length required.

Product Ref:	Function/description	Finishes
PXT45-K-EST60	Euro Cylinder & Turn 30/30 (60mm o/a)	add suffix:
PXT45-K-EST70	Euro Cylinder & Turn 35/35 (70mm o/a)	.00 for SB
PXT45-K-EST80	Euro Cylinder & Turn 40/40 (80mm o/a)	.12 for NP

Please Note:

Briton 75-29 cylinders may also be ordered as part of a masterkeyed suite. Please contact us for further information.



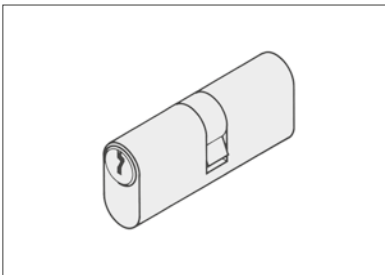
Rim cylinder

Product Ref:	Function/description	Finishes
PXT45-K-RC	Rim Night Latch Cylinder	add suffix:
		.00 for SB
		.12 for NP



Briton 75-29 Keys and options

Product Ref:	Function/description
75-29 PASS	75-29 Keyed Alike Charge
75-29.KEY	75-29 Key Supplied Later
75-29.KEY.M	75-29 Master Key Supplied Later
M.75-29.D	Briton 75-29 Differ Key Supplied With Order
M.75-29.M	Briton 75-29 Master Key Supplied With Order
M.75-29.BARRICADE	Anti Barricade Clutch Function
M.75-29.CLASSROOM	Classroom Clutch Function



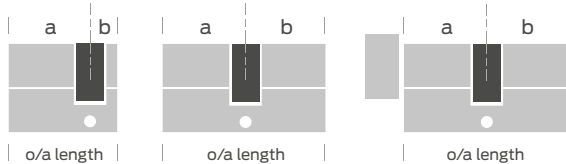
Please Note:

A range of oval cylinders is also available. Please contact us for further information.

Cylinder sizes are stated in the tables above in the form:

Euro Double a/b (o/a length).

e.g. Euro Double 30/30(60mm overall)



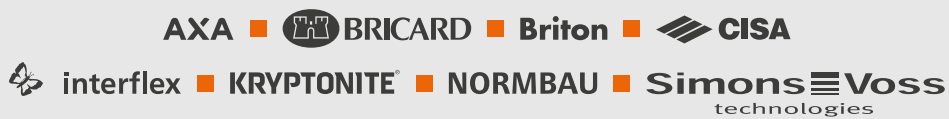
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May 2018

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2.4 billion company, with products sold in almost 130 countries.

For more, visit allegion.com



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