## **Bluewest.de**

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# DOOR HARDWARE: CYLINDERS AND KEYS

Access Solutions Consulting & Sales Company



#### **TECHNICAL DATA**



Certified according to the european norm



Certified according to the european norm



Use for fire proof systems



Anti drilling system



Cylinder with key on both sides



Cylinder with groove on one side and button on the other



Cylinder with key on one side and button on the other



Half cylinder with key on one side only



Number of keys by cylinder



Allows plans of master key system



Number of different combinations



Key aliked cylinder groups



Dual action system (opens even with key introduced in the interior)



Anti-bump



Corrosion resistant



Pick resistant



Tamper resistant



Torque resistant



Security levels











Certain cylinders exceed the maximum level set by the standard. It has created an iconography to identify and classify top quality cylinders in an intuitive way.

#### SECURITY













**BASIC** 













## **EN 1303 EUROPEAN STANDARD**

#### CYLINDERS FOR LOCKS: REQUIREMENTS AND TEST METHODS.

#### Category of use:

It makes resistance tests in accordance with this standard, ensuring maximum safety and operating in compliance with the defined requirements. The cylinders are classified according to the following table:

1 2 3 4 5 6 7 8

1

Only a defined grade.

#### Grade 1:

For use by people with a high incentive to exercise care and with a small chance of misuse.

2

Durability.

Grade 4:

25.000 Cycles.

Grade 5:

50.000 Cycles.

Grade 6:

100.000 Cycles.

3

Door mass.

4

Fire resistance.

Grade 0:

Not approved for use on fire.

Grade 1:

Suitable for use on fire.

5

Safety.

Grade 0:

No safety requirement.

6

Corrosion resistance and temperature.

Grade 0:

No corrosion requirement; no temperature requirement.

Grade A:

High corrosion resistance; no temperature requirement.

Grade B:

No corrosion requirement; temperature requirement: from – 20°C to + 80°C.

Grade C:

 $\label{eq:high-corrosion} \mbox{High corrosion resistance; temperature requirement: } \mbox{from} -20^{\circ}\mbox{C to} + 80^{\circ}\mbox{C}.$ 

7

Key related security, identified 6 levels which apply.

Grade 5:

Number of effective differs: **30.000** Number of detainers: **6** 

Grade 6:

Number of effective differs: **100.000** Number of detainers: **6** 

8

Attack resistance.

Grade 0:

No resistance against drilling and against mechanical attack.

Grade 1:

3 / 5 minutes resistance against drilling; Resistance against mechanical attack.

Grade 2:

5 / 10 minutes resistance against drilling; Resistance against mechanical attack.







#### S40-HIGH SECURITY CYLINDERS

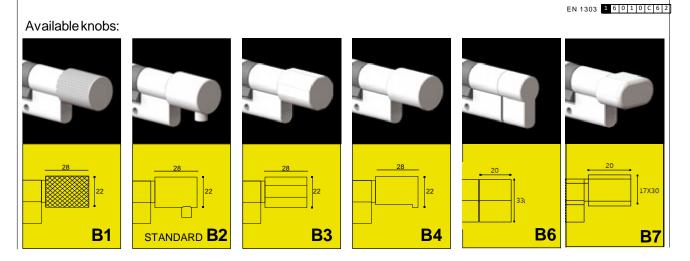
#### **S40 HIGH SECURITY CYLINDERS**

This family of cylinders meets high levels of safety and durability of the EN 1303 norm.

- Durability far exceeds grade 6 of the norm EN 1303.
- · Resistance to fire can equip fire doors.
- · Corrosion resistance exceeds grade C of the norm.
- Key safety exceeds grade 6 of the norm (norm requires 100.000 combinations the S40 has more of 1.000.000).
- Resistance to attack (far exceeds the grade 2 of the norm).

Cylinder with characteristics that can be used in buildings with high standards of safety, industry,

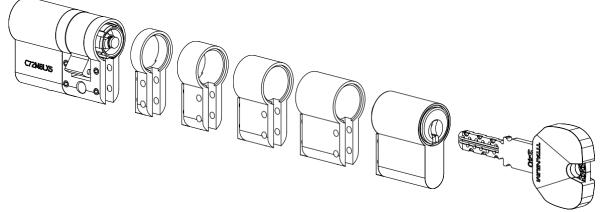




## **COMPLETE RANGE OF FINISHES**









**S40 TITANIUM** BDC.19.S40.\_\_\_.\_





**S40 TITANIUM** BDC.19.S40.\_\_\_.TB



**S40 TITANIUM** BDC.19.S40.\_\_\_.TG



**S40 TITANIUM** BDC.19.S40.\_\_\_.TCO



**S40 TITANIUM** BDC.19.S40.\_\_\_.TCH

## **S40 – HIGH SECURITY CYLINDERS**





























- A. Cylinder body
- B. Cam
- C. Cam
- D. Central module
- E. Anti drill
- F. No picking pins
- G. Double action function
- H. Modular elements



BDC.19.S40.C2P/L/W/R/B/G Key identifiers.





BDC.19.S40.C2P









BDC.19.S40.C2W BDC.19.S40.C2L

BDC.19.S40.C2B

BDC.19.S40.C2G



## **STANDARD CYLINDERS**

EN 1303 1 6 0 1 0 C 6 2

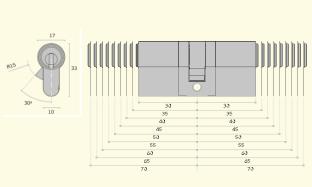
BDC.19.S40.\_ \_\_.\_.TB
TITANIUM BLACK.



BDC.19.S40.\_\_\_\_.TG

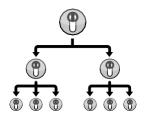
BDC.19.S40.\_\_\_\_.TCO TITANIUM COPPER. BDC.19.S40.\_\_\_\_.TCH
TITANIUM CHOCOLATE.

BDC.19.S40 Different key.



All the size combinations are possible.

BDC.19.S40.\_ \_ \_.\_ \_.MST Master key system. (Attach master key plan)



BDC.19.S40.\_\_\_.\_.KEA Key alike system. (Attach plan)



\_\_BDC.19.S40.\_ \_\_\_\_.B
Different key with button.

\_\_\_\_BDC.19.S40.10
Different key half cylinder.

#### S30 - SECURITY CYLINDERS

#### S30 - AN INNOVATIVE KEY

Security cylinder with an exclusive profile. Patented key profile. Cylinder with 18 pins, 6 profiles of readers.

The number of different key combinations up to 400.000.

Anti drill protection. System double-acting work with key for both sides even with one inserted key. Single master key plans up to **1.000** cylinders. Master key extension not possible. Not possible to duplicate the key. Key copies are exclusively made and controlled by the manufacturer.

#### **S30 - SECURITY CYLINDERS**

This cylinder family meets medium safety and durability requirements of EN 1303.

- · Durability exceeds by far the level 6 of standard EN 1303.
- · Fire resistance can equip fireproof doors.
- Corrosion resistance exceeds the grade C of the standard EN 1303.
- Security key surpasses the level 6 of EN 1303 (standard requires 100.000 different combinations) 400.000 combinations is reached.
- Attack resistance exceeds by far the level 2 of EN 1303 Cylinder with features for installation in buildings of high security standards: industry, education, healthcare, hotels, private security, etc.

#### **FEATURES**

European profile cylinder with 18 key readers and 6 profile readers. Anti drill system. System clutch that allows opening from the outside even with the key inside. The greater range of available buttons. Suitability to reach the design of other closure elements. Profiles available: European profile.



EN 1303 1 6 0 1 0 C 6 2

S30 3



## **STANDARD CYLINDERS**































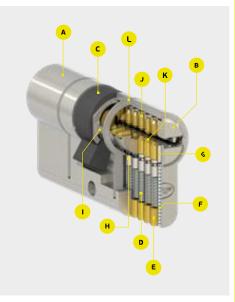






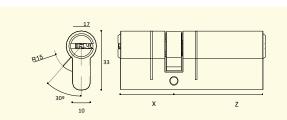
- A. Cylinder body
- B. Cam
- C. Cam
- D. Spring
- E. Locking pins
  F. Anti drill

- G. Anti drill
  H. No picking pins
- I. Double action function
- J. Profile pins
  K. 12 pins
- L. Sacrificial cut



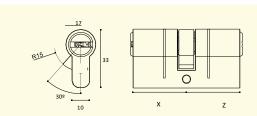
\_.\_ \_. BDC.19.S30

Different key.



REF.	х	Z	X + Z
BDC.19.\$30.31.40	31,5	40	71,5
BDC.19.\$30.31.50	31,5	50	81,5
BDC.19.\$30.40.50	40	50	90
BDC.19.\$30.31.60	31,5	60	91,5

\_\_\_. BDC.19.S30 Different key.



REF.	x	z	X + Z
BDC.19.\$30.31.31	31,5	31,5	63
BDC.19.\$30.32.32	32,5	32,5	65
BDC.19.\$30.35.35	35	35	70
BDC.19.S30.40.40	40	40	80

#### S22 - STANDARD CYLINDERS

#### REVERSIBLE CODIFICATION SYSTEM

Security cylinder for European profile with 6 pins. Anti drill and anti picking protection, available with key alike groups. Supplied with 5 numbered keys and property cards for duplication of cylinder keys. Finish: Satin nickel.

- · Encoded keys.
- Property card.
- · Anti drill protection.
- · Anti picking protection.
- · Supplied with 5 keys.
- · Possible to have key a liked groups.
- · Possible to make complex master key (S28), on request.



EN 1303 1 6 0 0 0 C 5 2

S22 **?** 



## STANDARD CYLINDERS

BDC.19.522.CB























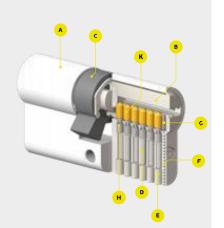




- B. Cam
- C. Cam
- D. Spring
- E. Locking pins
- F. Anti drill
- G. Anti drill
- H. No picking pins

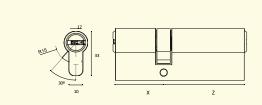






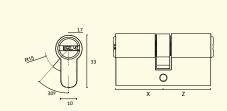
Card Owner

\_\_\_. BDC.19.S22
Different key.



REF.	х	Z	X+Z
BDC.19.S22.31.40	31,5	40	71,5
BDC.19.S22.31.50	31,5	50	81,5
BDC.19.S22.40.50	40	50	90
BDC.19.S22.31.60	31,5	60	91,5

\_\_\_. BDC.19.S22
Different key.



REF.	х	Z	X + Z
BDC.19.\$22.31.31	31,5	31,5	63
BDC.19.\$22.32.32	32,5	32,5	65
BDC.19.\$22.35.35	35	35	70
BDC.19.S22.40.40	40	40	80

## **S20 - STANDARD CYLINDERS**

EN 1303 1 6 0 0 0 C 5 2

#### REVERSIBLE CODIFICATION SYSTEM

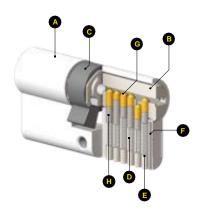
Standard cylinder for European profile with 6 pins. Anti drill and anti picking protection, available with key alike groups. Supplied with 5 numbered keys and property cards for duplication of cylinder keys. Finish: Satin nickel. The reversible key system for medium security requirements and the toughest conditions.

- · Encoded keys.
- · Property card.
- · Anti drill protection.
- Anti picking protection.
- · Supplied with 5 keys.



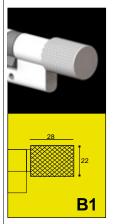


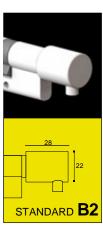
Card Owner

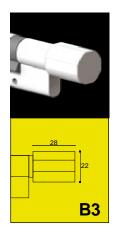


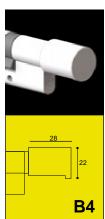
- A. Cylinder body
- B. Cam
- C. Cam
- D. Spring
- E. Locking pins
- F. Anti drill
- 6 Pins
- H. No picking pins

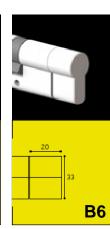
#### Available knobs:

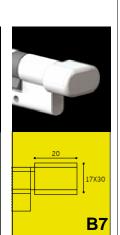










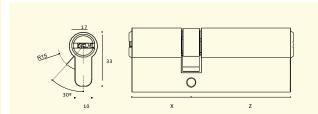


\$20 2 standard cylinders

BDC.19.524.CB Blank key.

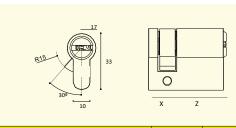


\_\_\_. BDC.19.524 Different key.



REF.	х	Z	X + Z
BDC.19.524.31.35	31,5	35	66,5
BDC.19.524.31.40	31,5	40	71,5
BDC.19.524.31.50	31,5	50	81,5

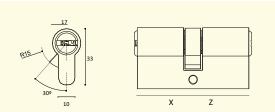
\_\_\_.BDC.19.524
Different key.



REF.	Х	Z	X+Z
BDC.19.524.10.31	10	31,5	41,5
BDC.19.524.10.35	10	35	45
BDC.19.524.10.40	10	40	50

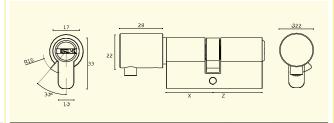
## \_ \_ \_.\_ BDC.19.524

Different key.



REF.	x	z	X+Z
BDC.19.524.31.31	31,5	31,5	63
BDC.19.524.32.32	32,5	32,5	65
BDC.19.524.35.35	35	35	70
BDC.19.524.40.40	40	40	80

\_ **BDC.19.524.**\_ \_ \_.\_ .B Different key.



REF.	Х	Z	X+Z
BDC.19.524.31.31.B_	31,5	31,5	63
BDC.19.524.31.40.B_	31,5	40	71,5
BDC.19.524.35.35.B_	35	35	70
BDC.19.524.35.45.B_	35	45	80

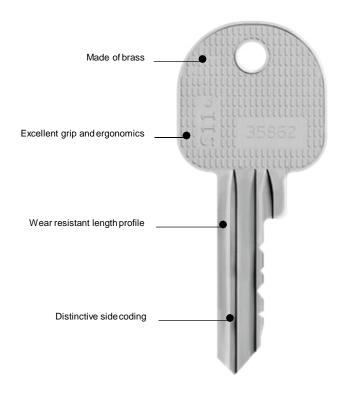
## **S11 – STANDARD MODULAR CYLINDERS**

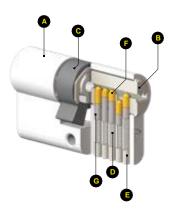
EN 1303 1 6 0 0 0 C 5 2

#### INTERNAL CODIFICATION SYSTEM

Standard cylinder for European profile with 5 pins. Anti drill and anti picking protection, available with key alike groups. Supplied with 5 numbered keys and property cards for duplication of cylinder keys. Finish: Satin nickel. The reversible key system for medium security requirements and the toughest conditions.

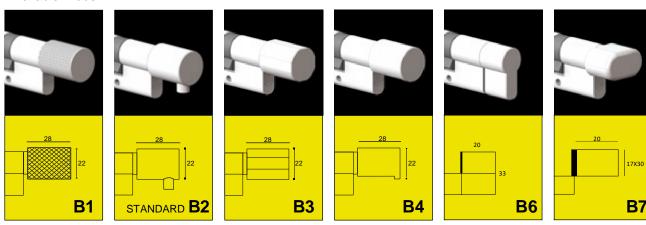
- · Encoded keys.
- Anti picking protection.
- · Supplied with 5 keys.





- A. Cylinder body
- B. Cam
- C. Cam
- D. Spring
- E. Locking pins
- F. 5 Pins
- G. No picking pins

#### Available knobs:























STANDARD



Titanium Black.

BDC.19.S11.\_ \_ \_.\_ .TB

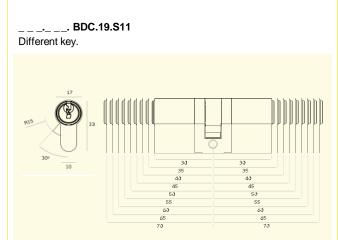


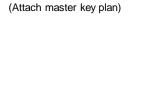




Titanium Chocolate.

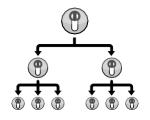




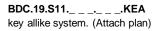


BDC.19.S11.\_ \_ \_.\_ \_.MST

Master key system.



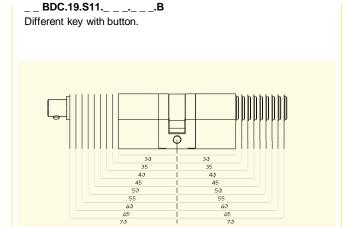
\_ \_\_. BDC.19.S11.10

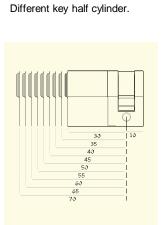


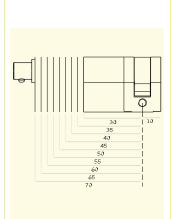


BDC.19.S11.10.\_ \_ \_.B

Half cylinder with button.





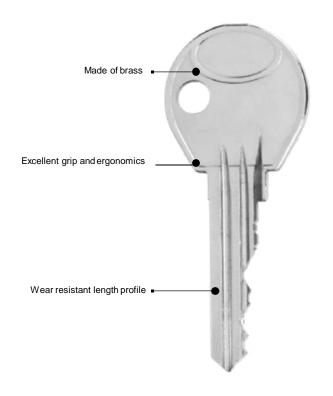


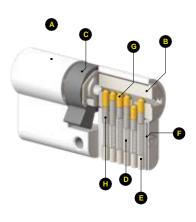
## **S10 – STANDARD CYLINDERS**

EN 1303 1 6 0 0 0 C 5 1

#### **S10**

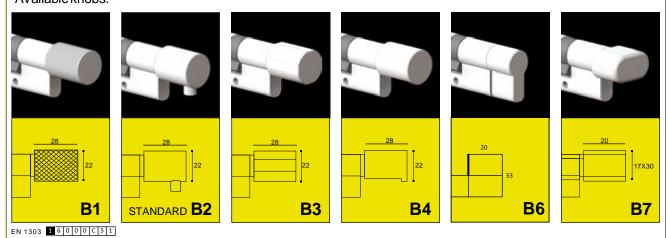
European profile cylinder with 6 pins. Anti-drill and anti picking protection. Available with key aliked groups and a single master key system. Supplied with 3 keys. Finish in satin nickel.





- Cylinder body
- Cam В.
- C. Cam
- D.
- Spring Locking pins E.
- F. Anti drill
- 6 Pins G.
- No picking pins

Available knobs.







## STANDARD CYLINDERS



















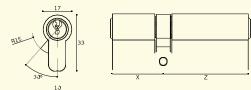




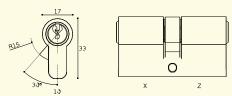


\_\_\_. BDC.19.523
Different key.

\_.\_ \_. BDC.19.523 Different key.

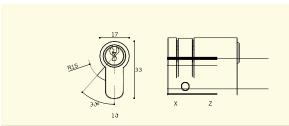


REF.	х	Z	X+Z
BDC.19.523.31.35	31,5	35	66,5
BDC.19.523.31.40	31,5	40	71,5



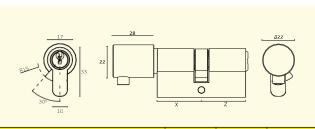
REF.	х	Z	X+Z
BDC.19.523.31.31	31,5	31,5	63
BDC.19.523.35.35	35	35	70
BDC.19.523.40.40	40	40	80

# \_\_\_. BDC.19.523.10 Different key.



REF.	X	Z	X+Z
BDC.19.523.10.31	10	31,5	41,5
BDC.19.523.10.35	10	35	45
BDC.19.523.10.40	10	40	50

#### BDC.19.523.\_ \_ \_ .\_ .B Different key.

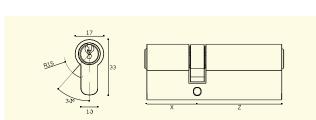


REF.	х	Z	X+Z
BDC.19.523.31.31.B_	31,5	31,5	63
BDC.19.523.31.40.B_	31,5	40	71,5
BDC.19.523.35.35.B_	35	35	70

## **S05 - BASIC CYLINDERS**

#### BDC.19.S05

European profile cylinder made in brass with 5 pins. Supplied with 3 keys. Accessories: 1 screw 5 x 75 mm. Finish: Satin nickel.



REF.	Х	z	X+Z
BDC.19.S05.30.30	30	30	60
BDC.19.S05.32.32	32,5	32,5	65
BDC.19.\$05.35.35	35	35	70
BDC.19.S05.30.40	30	40	70















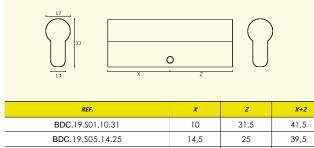


BDC.19.S05.C Blank key.



#### BDC.19.S01

Blind cylinder.

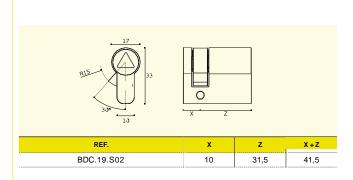


REF.	х	Z	X+Z
BDC.19.S01.10.31	10	31,5	41,5
BDC.19.\$05.14.25	14,5	25	39,5
BDC.19.\$05.31.40	31,5	40	71,5
BDC.19.\$05.31.31	31,5	31,5	63
BDC.19.S05.35.35	35	35	70
BDC.19.S05.40.40	40	40	80



#### BDC.19.S02

Cylinder for triangular key.

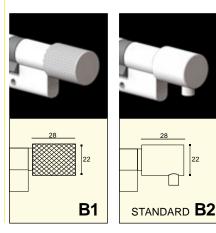


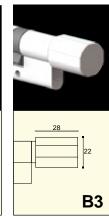


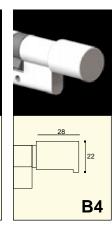


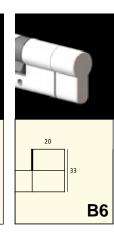


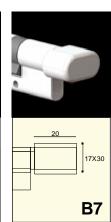
## **AVAILABLE KNOBS**





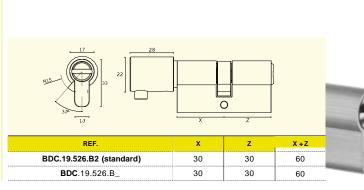






#### BDC.19.526.B

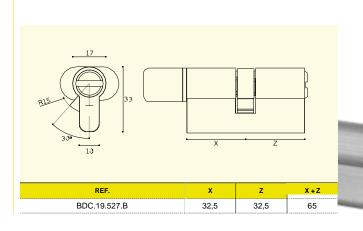
European profile cylinder with a coin slot on one side and stainless steel button on the opposite side. 6 models available.





#### BDC.19.527.B

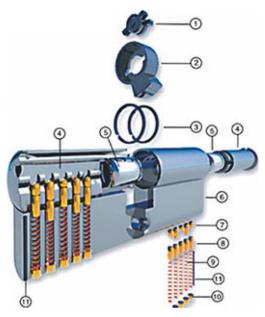
The cylinder of the European profile with an ergonomic button and a coin slot. Made in zinc alloy. Finish in satin nickel.





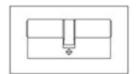
## **LOCK CYLINDERS**

- EN 1303 and DIN 18252 / 09 1999 standard.
- 6 pins standard, 10 pins high security with two line pins, other sizes available.
- · Quality solid Brass body.
- 30 degree offset cam inhibits knock through.
- · Cylinders available in a variety of finishes.
- Key Management: Master key, key alike grand master key, construction key.

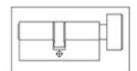


- 1. Clutch.
- 2. Cam.
- Clip rings.
- 4. Barrel.
- Spacer (long cylinders only).
- 6. Housing.
- 7. Key pins.
- 8. Middle pins.
- 9. Springs.
- 10. Closing pins.
- 11. Anti drill pin.

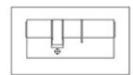
#### **Function & Specification**



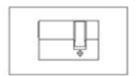




Single entrance function.

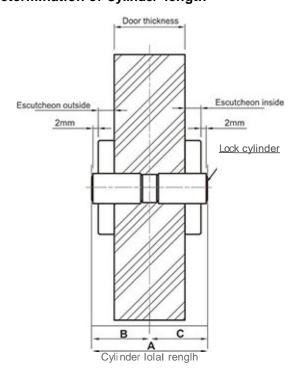


Offset Cylinder.



Half Cylinder.

#### **Determination of Cylinder length**



The following factors have to be considered when determining the length A of the locking cylinder.

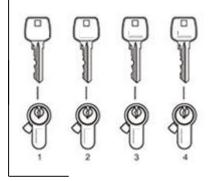
- · Door thickness.
- · Position of the lock in the door.
- Thickness of escutcheon on the outside.
- · Thickness of on the inside.

#### Note:

- The lengths B and C are each measured from the center of the fixing screw.
- The following applies to the length A must provided only max 4 mm from the escutcheon on the outside and inside.

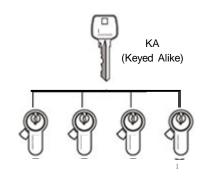
### Keyed to differ (KD)

Cylinders to differ are all operated by individual keys all different to each other.



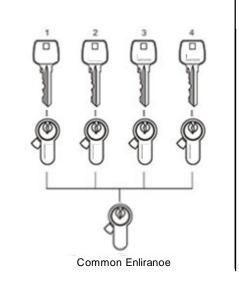
#### Keyed alike suites (KA)

All cylinders are opened by the same key. This gives an arrangement where one key Will opens a group of locks.



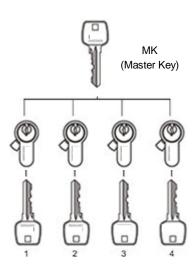
#### Common entrance suites

Each individual key is opened ils own lock and the common entrance .



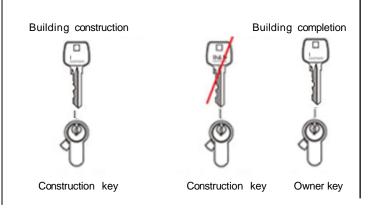
#### Master key suites (MK)

A group of cylinders, each equipped with an individual servant key, is also operated by one special key known as the master key. Keyed alike groups can also be incorporated into any master key suit.



### Construction key (CK)

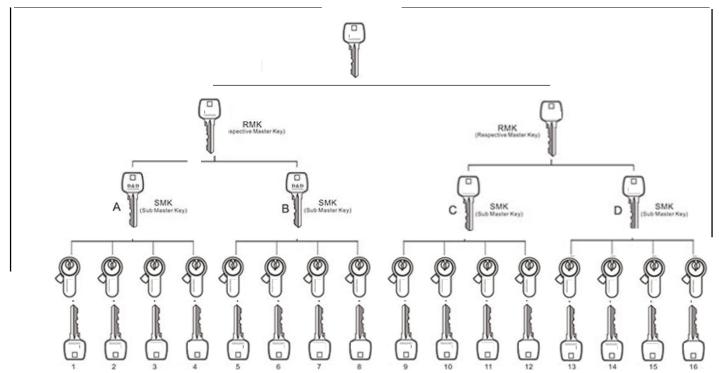
The Construction key can operate the cylinder during the construction period. After construction is ended up, master key can insert the cylinder and change the pin combination. The construction key can not open the same cylinder lock anymore.



## **GRAND MASTER KEY SUIT (GMK)**

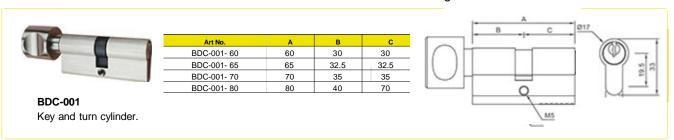
Master key groups are referred to as sub suites. In these instances, all cylinders irrespective of their sub suite, are controlled by one key known as the grand master key.

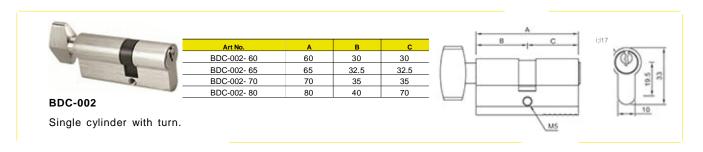
GMK (Grand master key)

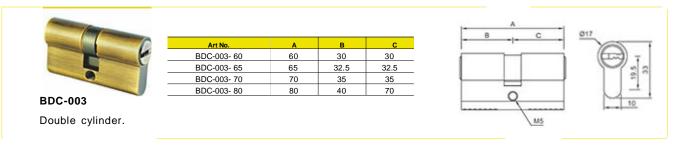


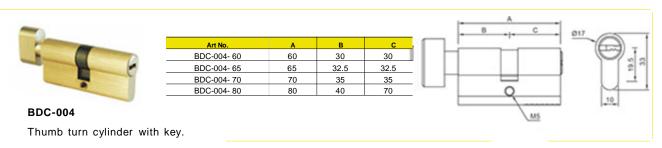
#### **LOCK CYLINDERS**

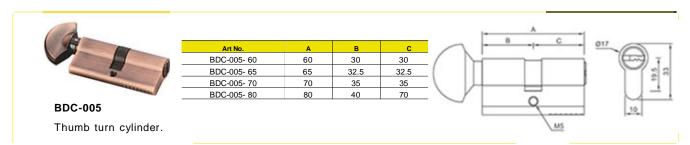
- · Material: Quality solid brass body and plug.
- Keys: 3 Brass keys / 5 brass keys.
- Key type: Yale key, computer key.
- Key management function: Master key, grand master key, construction key, keyed alike.
- Pins: 6 Brass pins standards, 10 pins high security with two – line pins, other sizes available.
- Degree: 0 or 30 degree offset cam inhibits knock through.
- Standard: conforms to EN 1303.
- Fastening screw: 65 mm (standard), other lengths will be available according to different backset.











- Material: Quality solid brass body and plug.
- Keys: 3 Brass keys / 5 brass keys.
- Key type: Yale key, computer key.
- Key management function: Master key, grand
   master key, construction key, keyed alike.
- Pins: 6 Brass pins standards, 10 pins high security with two – line pins, other sizes available.
- Degree: 0 or 30 degree offset cam inhibits knock through.
- Standard: conforms to EN 1303.

32.5 35 70

 Fastening screw: 65 mm (standard), other lengths will be available according to different backset.



 Art No.
 A
 B
 C

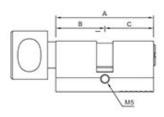
 BDC-006- 60
 60
 30
 30

 BDC-006- 65
 65
 32.5
 32.5

 BDC-006- 70
 70
 35
 35

 BDC-006- 80
 80
 40
 70

60





DDLC006

Oval bathroom cylinder.



BDC-007- 65	65	32.5	
BDC-007- 70	70	35	
BDC-007- 80	80	40	Г

BDC-007-60

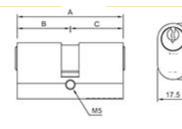
BDC-C007 Euro bathroom cylinder.



BDC-008

Oval double cylinder.

Art No.	Α	В	С	
BDC-008- 60	60	30	30	
BDC-008- 65	65	32.5	32.5	
BDC-008- 70	70	35	35	
DDC 000 00	90	40	70	





BDC-009			
Half cylinder	with	thumb	turn.

Art No.	A	В	С	
BDC-009- 60	60	30	30	
BDC-009- 65	65	32.5	32.5	
BDC-009- 70	70	35	35	
BDC-009- 80	80	40	70	



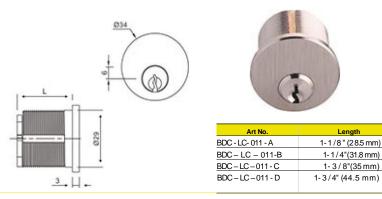
BDC-010 Half cylinder with key.

				I <del>* ^</del> -	
Art No.	Α	В	С	8 - -C-	017
BDC-010- 60	60	30	30		( )) -
BDC-010- 65	65	32.5	32.5	1	
BDC-010- 70	70	35	35		6 6
BDC-010- 80	80	40	70	· • • • • • • • • • • • • • • • • • • •	
				0	4-1
					10
				M5	10000

- · Material: Quality solid brass body and plug.
- Keys: 3 brass keys / 5 brass keys.
- Key type: Yale key, computer key.
- Key management function: Master key, grand master key, construction key, keyed alike.
- Pins: 6 brass pins standard, 10 pins high security with two line pins, other sizes available.
- Degree: 0 or 30 degrees offset cam inhibits knock through.
- · Standard: Conforms to EN 1303.
- Fastening screw: 65 mm (standard), other lengths will be available according to different backset.

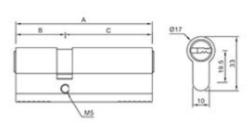
# BDC-LC-011 6 Pin SCHLAGE C" keyway Rim Cylinder:

- ANSI mortise cylinder standards.
- 5 pins, 6 pins available.
- SGHLAGE, Kwikset, Weiser and Pin-in-pin system.
- Mortise cylinder with cam.
- Master key is available.



#### BDC-LC-012

Offset double cylinder.





Art No.	Α	В	С
BDC-LC -012 - 60	60	25	36
BDC-LC -012 - 70	70	30	40
BDC-LC -012 - 80	80	30	50
BDC-LC -012 - 90	90	40	50

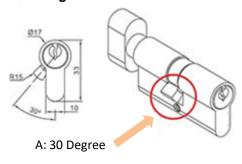
#### Key design for lock cylinder.

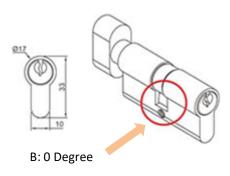






#### Offset cam degree.

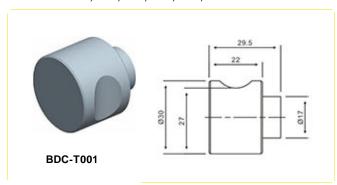


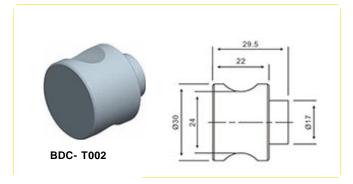


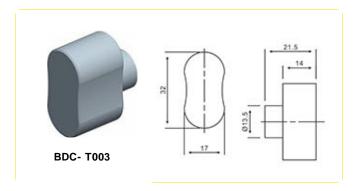
## **LOCK CYLINDES**

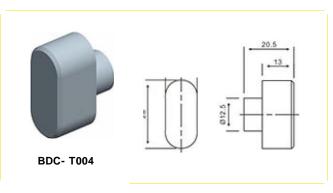
#### **Features**

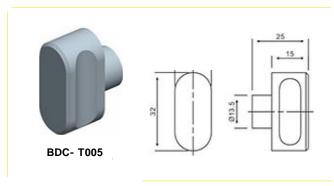
- Knob for lock cylinder.
- Material: Solid brass.
- Finish: SN, PB, AB, AC, CP, PVD.

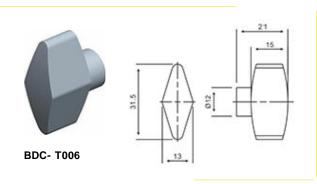


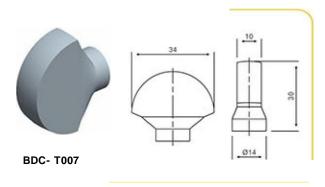


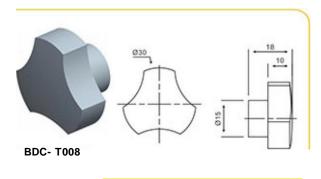












## **ANSI MORTISE CYLINDERS**

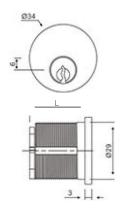


BDC-LC-011

# 6 Pin SCHLAGE C" keyway Rim Cylinder:

- ANSI mortise cylinder standards.
- 5 pins, 6 pins available.
- SGHLAGE, Kwikset, Weiser & Pin-in-pin system.
- Mortise cylinder with cam.
- Master key is available.

Art No.	Length
BDC - LC- 011- A	1-1/8" (28.5 mm)
BDC - LC- 011- B	1-1/4"(31.8 mm)
BDC - LC- 011- C	1-3/8"(35 mm)
BDC - LC- 011- D	1-3/4" (44.5 mm)





BDC-LC-013

#### IC Core Cylinder:

- 6 pins interchangeable.
- · Core Cylinder.

Art No.	Length
BDC - LC- 013- A	1-1/8" (28.5 mm)
BDC - LC- 013- B	1-1/4"(31.8 mm)

#### Features & Benefits

- Mortise cylinder IC core housing, small format best, 26D.
- Mortise cylinder IC core housing, big format Schlage "C", 26 D.

Interchangeable core users can enjoy the convenience of fast rekeying without having to disassemble the lock. This feature is very useful in applications where a high frequency of core changes are needed or a lock disassembly is labor – intensive such as with exit devices and certain types of all glass doors, etc.



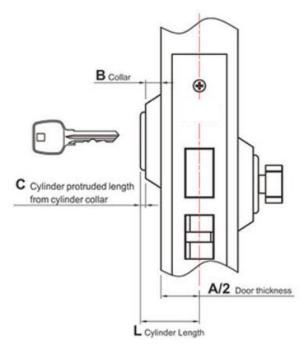
Cam Type.



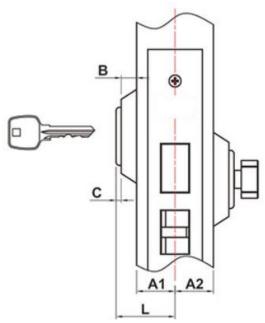


## **ANSI MORTISE CYLINDERS**

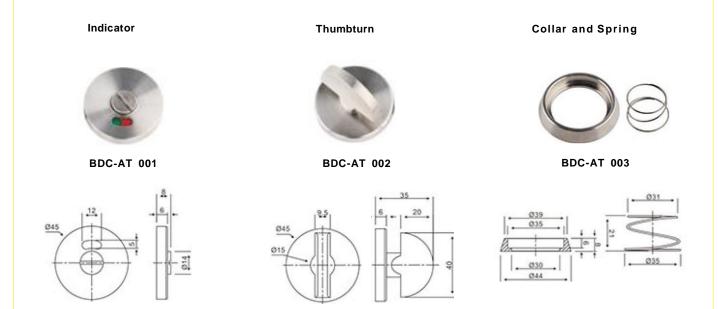
How to choose the right size ANSI cylinder.



Lock case was installed in the center of door, Cylinder length L=A/2+B.



Lock case was installed deviated from the center of door, Cylinder length L=A/2+B.



# Thank you for your attention

